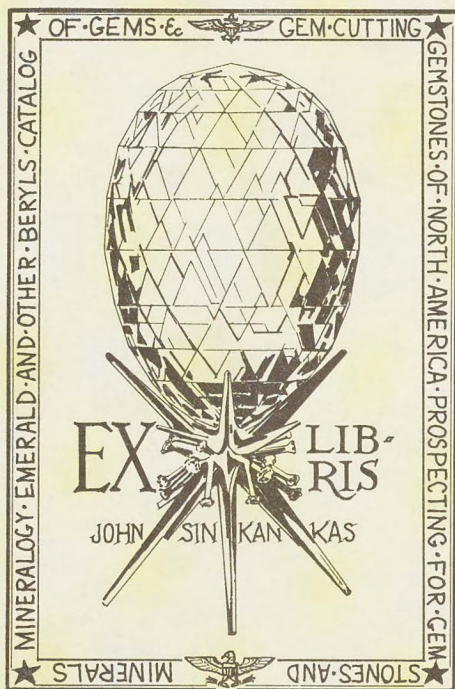
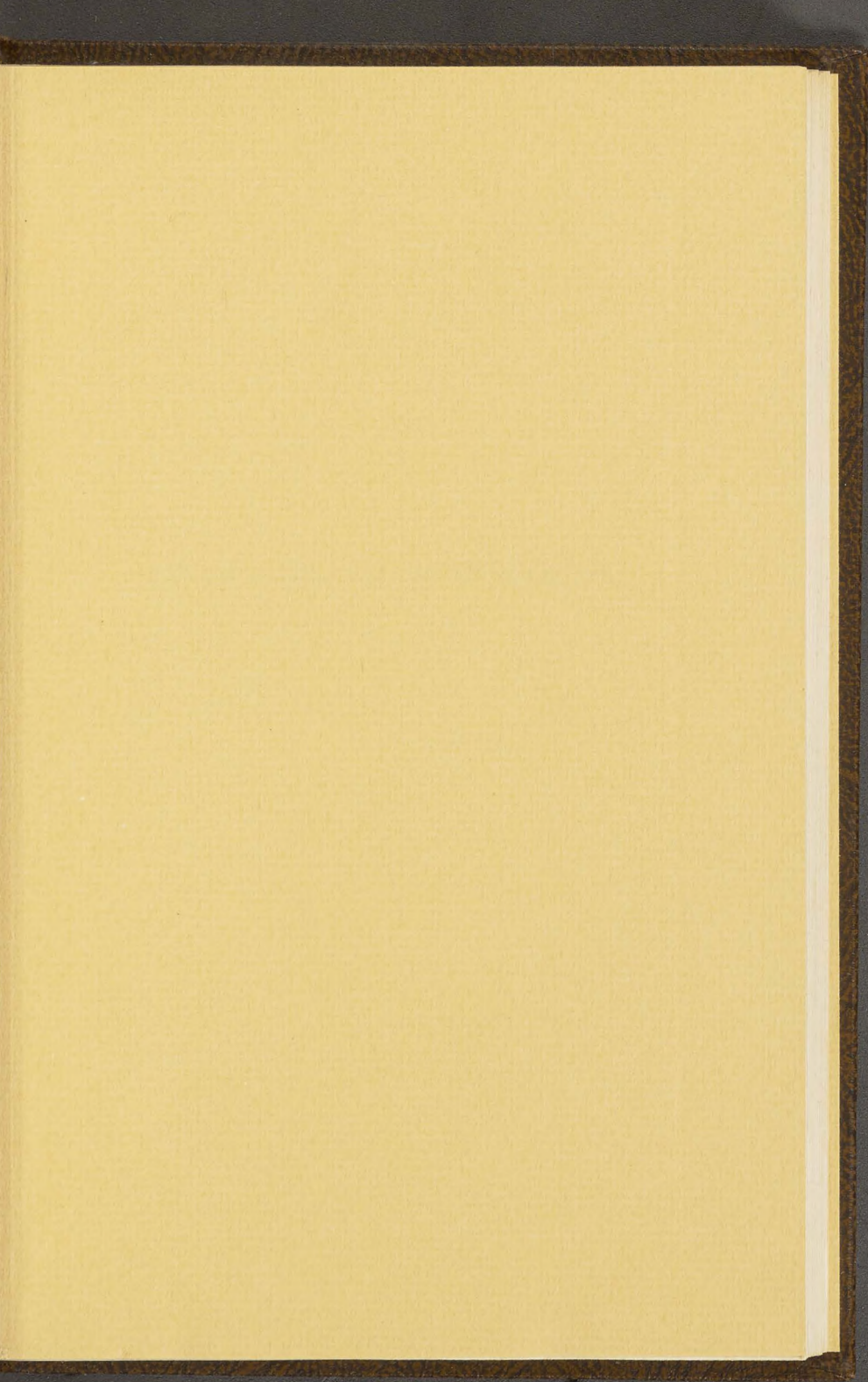


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MINERALOGICAL SYNONYMES.

THEORY OF SYNTAX

*Discovered
R. 200108*

L

MINERALOGICAL
NOMENCLATURE,

ALPHABETICALLY ARRANGED;

WITH

SYNOPTIC TABLES

OF THE

CHEMICAL ANALYSES

OF

MINERALS.



EDINBURGH:

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LONDON.

1814.

MINERALOGICAL
NOMENCLATURE

ALPHABETICALLY ARRANGED

SYNOPTIC TABLES

CHEMICAL ANALYSIS

MINERAL



CALEDONIAN MERCURY PRESS,
EDINBURGH.

ERRATA.

Notwithstanding my anxiety to avoid inaccuracies, I have had the mortification to observe several typographical errors. As these, however, do not affect the sense, I shall not here enumerate them, but only request attention to the following alterations.

In the alphabet, after *Argent noir*, read *Méth.* 108 iii. *a. n.*, 108 iii. *b*

———— after *Augustit Reuss*, read 94 *a*

———— after *Bohnerz w.*, read 64 v. *l*

In article 38. ii. for vitreous ore, read vitreous copper ore

———— 50. *a* for *Silex* read *Selce*

———— 60. delete *Schiller spar*

———— 64. vi. delete *spath fusible Delisle*

In alphabet, after *White vitriol*—122 *n.*, for *Weisenerz* read *Wiesenerz*

———— after *Zeolithe à 24 facettes* v. 5. *a.*, for *Zeigelerz* read *Ziegelerz*

IN THE TABLES.

In No. V. analyses of sul. of soda after 49. let the dagger be reversed.

In No. XLVIII. in the last column, corresponding with the analyses of Asbestous actinolite, for An. ch. 212. read *Annals*, No. 21.

NOTES

1. The first part of the paper is devoted to a general discussion of the problem of the origin of life. It is shown that the problem is one of the most important and interesting in the history of science.

2. The second part of the paper is devoted to a discussion of the various theories of the origin of life. It is shown that the most plausible theory is that of spontaneous generation.

3. The third part of the paper is devoted to a discussion of the various experiments which have been conducted in order to test the theory of spontaneous generation. It is shown that the results of these experiments are in favor of the theory.

4. The fourth part of the paper is devoted to a discussion of the various objections which have been raised against the theory of spontaneous generation. It is shown that these objections are not valid.

5. The fifth part of the paper is devoted to a discussion of the various applications of the theory of spontaneous generation. It is shown that the theory has many important applications in the field of biology.

6. The sixth part of the paper is devoted to a discussion of the various conclusions which can be drawn from the foregoing. It is shown that the theory of spontaneous generation is the most plausible theory of the origin of life.

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1. Darwin, C. (1859). *The Origin of Species*. London: John Murray.

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INTRODUCTION.

THE idea of this little Work originated in the difficulty I experienced when the study of Mineralogy first engaged my attention. I was then so perplexed with the variety of Synonymous Terms which were indiscriminately made use of, that I was induced to frame a small manuscript vocabulary to assist my memory. This was afterwards committed to the press; and since that time so great an addition has been made, not only to the number of known minerals, but to the original stock of names, that a work of this kind requires to be renewed, were it only to keep pace with the alterations which time has introduced.

The very imperfect state in which this work formerly appeared, was another inducement to attempt some improvement; which, it occurred to me, might be accomplished by adopting a *specific system*, and arranging all the leading articles in alphabetical order in the list of names, while the chemical tables might be contrived to exhibit a *synoptic arrangement* of the system, in place of

taking them at random, as they happened to occur alphabetically in English, French, or German.

The systematic arrangement I have adopted is nearly similar to that of HAUY, in which, for the sake of convenience, a few alterations have been made. The convenience here alluded to, is simply that of cabinet arrangement, which has induced almost every Mineralogist to take some liberty of the same kind, and is quite allowable when we consider how very little there is to control the distribution of minerals. For although every method be essentially founded on chemical composition, as deduced by analysis, without which no unknown mineral can be determined; yet analysis must still be conjoined with external character; for, of itself it is by no means so precise, as in all cases, to establish the nature of minerals. There are many instances in which we should be as much perplexed to determine a mineral, by knowing only its component parts, as we invariably are to class a newly discovered substance before it has been investigated by the chemist. For example, in the *Annals of Philosophy* for August last, the result of an analysis by JOHN, of a mineral from Kozemutz, is given, singularly named Razoumoffskin, containing 50. Silica, 16.88 Alumina, 2. Magnesia, 10.37 Potash, 20. Water, .75 Nickel, with traces of Lime and Iron. Here, although we know the name, the locality, and the analysis, other data are still required before we can place it in the system. Again, the errors which have arisen from attempting to place minerals before they have been analysed, are numerous; Uranium, before it underwent chemical examination, was

taken by SAGE for Green Heavy Spar, and by LESKE for Green Mica. The Saxon Carbonate of Strontites was long considered at Freyberg as Igloït and the Needle-ore of Bismuth to be an alloy of Chrome. Sphène, Anatase, and Diopase, all metallic fossils, were arranged by HAUY among his earthy minerals, where they would probably have remained, had they not since been analysed.

It is, however, not very satisfactory to observe how widely the results of the most skilful analysts sometimes differ; particularly if any attention is to be paid to the theory of definite proportions, or that we are to allow with BERZELIUS, that the influence of the Electrochemical theory, can be extended to the arrangement of minerals, and mineralogy considered as a subordinate branch of chemistry. Although we cannot refuse to believe with him, that as the same nature operated every where, so the operations must have been governed by the same laws; still these laws may have been susceptible of an infinity of modifications, which are far beyond the feeble power of man to unravel; and although BERZELIUS may be able to select, from the fruits of that industry and labour which have already afforded so many accurate results, a few examples where the theory of definite proportions may be found applicable, (and it were wonderful if he did not); still it is to be feared, that even with all the means of accuracy the chemist is now possessed of, the heterogeneous nature of almost all mineral bodies, and the consequent impossibility of obtaining them in a perfectly simple state, is of itself an effectual bar to that

purity of system which he contemplates. It would indeed be delightful were it possible to clothe mineralogy in the true garb of science. As it is, however, we must not repine because we find the subjects of the inanimate kingdom incapable of the same perfection of arrangement as those of the animal and vegetable.

In imitation of HAUY the four great classes of ACIDIFEROUS, EARTHY, COMBUSTIBLE, and METALLIC have been selected. But in place of dividing the first into four orders, I have adopted only two of the most simple kind, namely, Soluble and Insoluble Salts. Of the Soluble Salts, the acid is considered as the type of the genus, with which the various alkaline or metallic combinations constitute the different species; thus the Carbonic, Boracic, Nitric, Muriatic, and Sulphuric Acids, which are found either native or compounds of Soluble Salts, form the genera, and their various combinations, so long as they are soluble in water, the species. By this means all the Salts are brought together, in place of being dispersed over the first and last classes of the system. This will no doubt appear to many persons an improper classification; in its defence I have only to plead convenience, which, in the cabinet of an individual, is an object of no small importance. Among the Insoluble Salts, I cannot prevail upon myself to place Topaz; its external characters certainly entitle it to remain with the harder substances, even though it should contain more than a fifth part of acid. With as much reason might we remove those which contain a notable proportion of alkali, some so high as 25 per cent. from among the earthy minerals;

but this would lead us to abandon the only principle of arrangement which, in the present state of the science, can be adopted with safety.

In the second class, I have not only rejected some of the alterations recently proposed by HAUY, but have also suggested others; conceiving it right to embrace as much as possible, and to place in the system every mineral we can, so long as we preserve distinct specific characters. Instead therefore of considering Calcedony, Opal, &c. as sub-species of Quartz, I see no inconvenience in regarding them as separate species. After them, I have introduced, also as species, Pitchstone, Pearlstone, Obsidian, Lava, Basalt, Basalt tuff, Greenstone and Clinkstone. These substances, in well characterised specimens, are all very distinct; yet gradations may be found whereby they may be traced so completely into each other, that it is nearly impossible to draw the line. Analysis too has been somewhat more successful in showing their mutual connections, than in most other parts of the system; and if we consider the close alliance which subsists between these and the Opals, through the medium of Pitchstone, we can scarcely refuse a place in the system, even to the aggregated rocks of Greenstone and Clinkstone. I have likewise adopted as species, Chlorite, Steatite, and Serpentine, in place of considering them as varieties of Talc; and to these are added Green earth, Bole, Fullers earth, Lithomarga, Potters clay, Whet slate, and Drawing slate, which have been uniformly left out in the arrangement of HAUY, although

in that of WERNER, they have always been considered as species of different families.

In the distribution of the minerals belonging to the second class, some alterations are also made. After Felspar I have placed Sodalite, a situation pointed out by its external characters; and next to it Natrolite, from its similarity in composition, although perhaps it might have been better to adopt the opinion of other mineralogists, and to have considered it as a variety of Zeolite. The Apophyllite is removed from immediately after Felspar to a situation among the Zeolites, to which it is now known to belong. Hyperstène I have placed before Augite, and made some other changes of less importance.

With respect to the recent alterations proposed by HAUY, such as classing Tremolite with Amphibole, and Sahlite with Augite, I do not think it necessary to adopt them, particularly as his analogies appear in some respects to be overstrained.

From the appendix of HAUY, I have removed into the system as many minerals as there was any apology for so doing, and some of them perhaps on too slender authority; still, however, I think it right to curtail this department as much as possible, even with the chance of error, particularly as future corrections will be attended with very little inconvenience. In an Appendix are included a variety of different minerals, some of which are but little known, except as existing in the cabinets of those to whom they are indebted for their denominations.

The combustible bodies I have arranged somewhat differently from HAUY; after Sulphur is placed Amber, and then Mellite, to appearance at least, the purest in succession. Then the Bitumens, Coal, Anthracite, and Plumbago, the last as being the most imperfect of the combustible substances.

In the arrangement of the metallic class of minerals there has been little left to desire. I have taken them in the same progression as HAUY; beginning with the precious metals, and ending with those which have been latest discovered.

In the system I have thus presumed to publish, I hope no very material errors will be detected; and if there should, I beg it may be considered, that although our opportunities for study have in this quarter been of late years highly improved, under the auspices of our present Professor of Natural History, mineralogy has but very recently attracted any considerable attention in this quarter. Our means are therefore still very limited, when compared with other capitals; and it must also be remembered, that this is not the work of a professional man, but the result of considerable assiduity, bestowed when avocations of a very different nature would permit; and I trust not unprofitably so, to some of those into whose hands this volume may happen to fall. I therefore hope it will not be considered as soliciting more than I deserve, when I beg that inaccuracies may not be too scrupulously criticised.

With regard to the synonymes of Geological Nomenclature, I am still of opinion that it is impossible to re-

duce them to the same kind of arrangement with the Mineralogical; men of science being as yet undecided what ought to be considered primary or transition. Besides, as the name very often depends, not on the characters of the substance, but on the position in which it occurs, it is quite impossible to embody the ideas of all geological writers in a work of this sort.

I cannot, however, help expressing very great regret at the desire which prevails among the French authors, (I do not name a recent geological work of this country, which, from its eccentricity, I trust will be harmless,) to introduce new names upon every new occasion. HAUY, who has done so much in this way in mineralogy, seems to have resolved not to be less bold in geology, and, with the assistance of Mons. TONDI, has introduced a set of terms, among which scarcely one old acquaintance is to be recognised. Nor would this rage be so mischievous were it confined to one or two philosophers, but unfortunately, like other fashions of a more frivolous nature, it does not fail to obtain imitators. Thus we find, in a very interesting memoir of BRONGNIART, in the *Journal des Mines* for February last, such names as *Trappites*, *Eurites*, *Roche Clastique*, &c. of which, it may be presumed, many, like myself, never before heard. The observations, however, in that memoir, strongly corroborate my opinion upon the subject of geological nomenclature, namely, that the time is not yet arrived when any thing stable, which shall be generally acceptable to geologists, can possibly be proposed. There are many errors to correct, and many prejudices to overcome,—and, when

we observe such a remark as the following, made by a man of BRONGNIART'S character, we have reason to hope that the period is approaching when accurate investigation, and philosophic induction, will take place of theory and hypothesis :

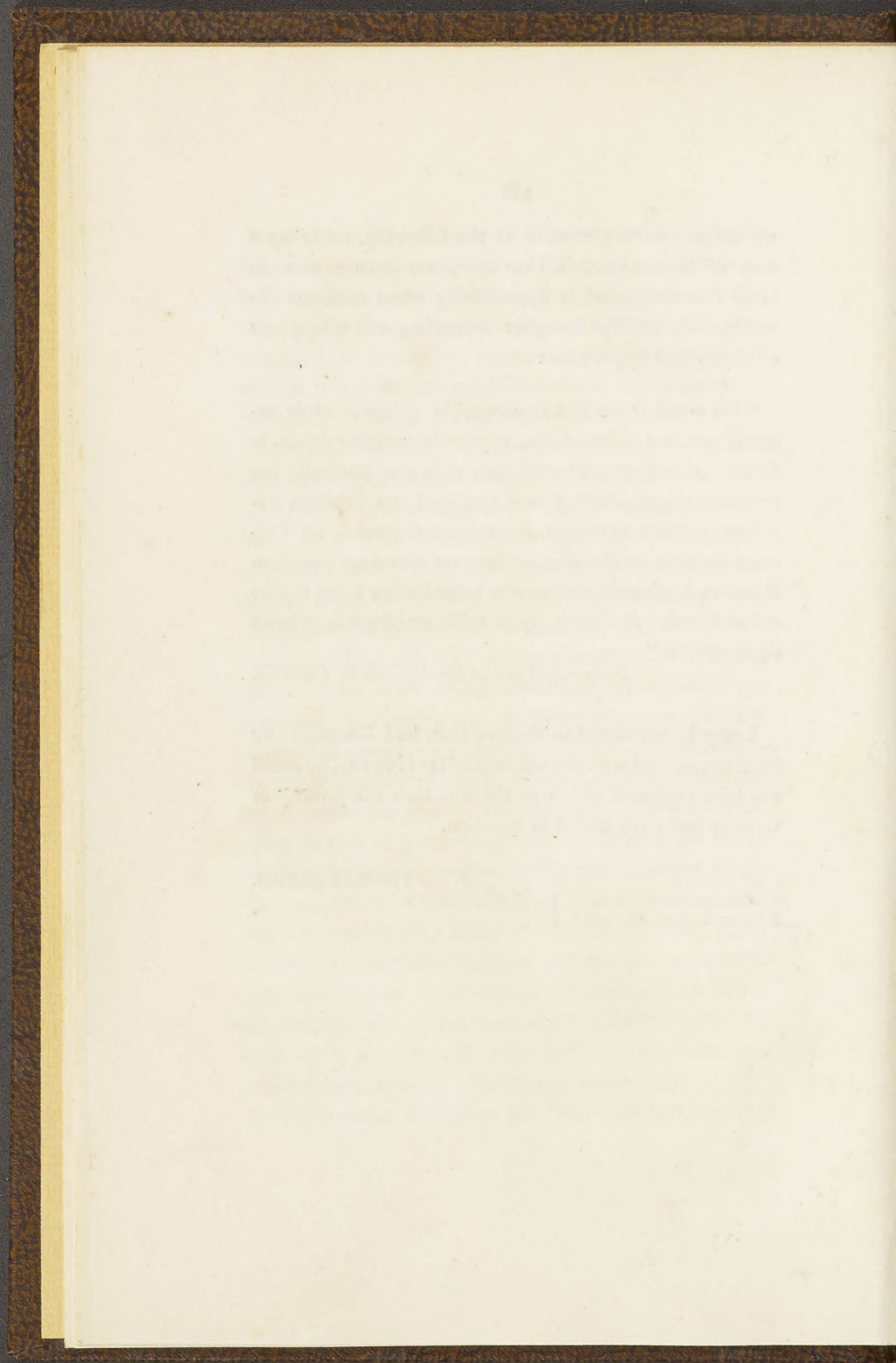
“ Ne serait-il pas fort remarquable qu'après avoir regardé pendant si long-tems, et sans le moindre doute, le Granite comme la plus ancienne, et la plus profonde des roches connues, il fût prouvé que c'est aux Schistes Argileux portant certaines empreintes végétales, au Calcaire noirâtre ou bleuâtre renfermant certaines petrifications, et à d'autres roches non cristallisées, à des roches même formées de debris, qu'il fallût attribuer la priorité de formation.”

Brongniart sur le Geologie de la Cotentin.

I may be permitted to observe that, had BRONGNIART been acquainted with the writings of Dr HUTTON, he could not have supposed this was the first time the priority of Granite had been called in question.

THOMAS ALLAN.

CHARLOTTE SQUARE, }
Edinburgh, 24th Dec. 1814. }



SYNOPSIS

OF THE

SYSTEM ADOPTED IN THIS WORK.

1. CLASS. SALINE SUBSTANCES.
 2. ——— EARTHY COMPOUNDS.
 3. ——— INFLAMMABLE BODIES.
 4. ——— METALLIC MINERALS.
-

1st CLASS.—SALINE SUBSTANCES.

1st ORDER, SOLUBLE SALTS.

1. GEN. CARBONIC.

- a. Native
- b. Carbonate of soda

2. GEN. BORACIC.

- a. Native
- b. Borate of soda

3. GEN. NITRIC.

- a. Nitrate of potash
- b. Nitrate of lime

4. GEN. MURIATIC.

- a. Native
- b. Muriate of soda
- c. Muriate of ammonia

5. GEN. SULPHURIC.

- a. Native
- b. Sulph. of ammonia
- c. ——— of soda
- d. ——— of alumine
- e. ——— of magnesia
- f. ——— of iron
- g. ——— of copper
- h. ——— of zinc
- i. ——— of cobalt

1st CLASS.

1st CLASS.—SALINE SUBSTANCES.

2d ORDER, INSOLUBLE SALTS.—1. GENUS, LIME.

- | | |
|-----------------------------|------------------------|
| 1. SP. CARBONATE. | 3. SP. PHOSPHATE. |
| <i>a.</i> Crystallised | <i>a.</i> Crystallised |
| <i>b.</i> Stalactitical | <i>b.</i> Green |
| <i>c.</i> Fibrous | <i>c.</i> Earthy |
| <i>d.</i> Foliated | 4. SP. FLUATE. |
| <i>e.</i> Oviform | <i>a.</i> Crystallised |
| <i>f.</i> Earthy | <i>b.</i> Compact |
| <i>g.</i> Granular | <i>c.</i> Earthy |
| <i>h.</i> Compact | 5. SP. SULPHATE. |
| <i>i.</i> Argillaceous | <i>a.</i> Crystallised |
| <i>k.</i> Bituminous | <i>b.</i> Fibrous |
| <i>l.</i> Magnesian | <i>c.</i> Compact |
| <i>m.</i> Quartzose | <i>d.</i> Earthy |
| <i>n.</i> Ferro-manganesian | <i>e.</i> Anhydrous |
| 2. SP. ARRAGONITE. | 6. SP. NITRATE. |
| <i>a.</i> Crystallised | 7. SP. ARSENIATE. |
| <i>b.</i> Coralliform | 8. SP. BORATE. |

2. GENUS, BARYTES.

- | | |
|------------------|-------------------|
| 1. SP. SULPHATE. | 2. SP. CARBONATE. |
|------------------|-------------------|

3. GENUS, STRONTITES.

- | | |
|------------------|-------------------|
| 1. SP. SULPHATE. | 2. SP. CARBONATE. |
|------------------|-------------------|

5. GENUS, MAGNESIA.

- | | |
|-------------------|----------------|
| 1. SP. NATIVE. | 3. SP. BORATE. |
| 2. SP. CARBONATE. | |

5. GENUS, ALUMINE.

- | | |
|------------------|-------------------------|
| 1. SP. SULPHATE. | 2. SP. ALKALINE FLUATE. |
|------------------|-------------------------|

2d CLASS.—EARTHY COMPOUNDS.

- | | |
|------------------------|------------------------|
| 1. SP. QUARTZ. | <i>e.</i> Yellow |
| <i>a.</i> Crystallised | <i>f.</i> Rose |
| <i>b.</i> Purple | <i>g.</i> Resplendent |
| <i>c.</i> Blue | <i>h.</i> Hematitic |
| <i>d.</i> Green | <i>i.</i> Flinty slate |

- k.* Scaly
 - l.* Granular
 - m.* Fibrous
 - n.* Amorphous
 - o.* Pseudo
 - 2. Sp. CALCEDONY.
 - a.* Stalactitical
 - b.* White
 - c.* Coloured
 - d.* Variegated
 - e.* Green
 - f.* Chrysoprase
 - g.* Massive
 - 3. Sp. OPAL.
 - a.* Precious
 - b.* Hydrophaneous
 - c.* Common
 - d.* Brown
 - e.* Blue
 - f.* Stalactitical
 - 4. Sp. FLINT.
 - a.* Compact
 - b.* Decomposed
 - c.* Brown.
 - 5. Sp. JASPER.
 - a.* Common
 - b.* Opal jasper
 - c.* Porcellaine jasper
 - 6. Sp. PITCHSTONE.
 - 7. Sp. PEARLSTONE.
 - 8. Sp. OBSIDIAN.
 - 9. Sp. LAVA.
 - a.* Compact
 - b.* Vesicular
 - c.* Earthy
 - 10. Sp. BASALT.
 - 11. Sp. BASALT TUFF.
 - 12. Sp. GREENSTONE.
 - 13. Sp. CLINKSTONE.
-
- 16. Sp. CHRYSOBERIL.
 - 17. Sp. SPINEL.
 - 18. Sp. TOPAZ.
 - 1 *App.* Pycnite
 - 2 *App.* Pyrophysallite
 - 19. Sp. EMERALD.
 - a.* Precious
 - b.* Beril
 - 20. Sp. EUCLASE.
 - 21. Sp. GARNET.
 - a.* Precious
 - b.* Common
 - c.* Black
 - d.* Olive green
 - e.* Granular
 - f.* Manganesian
 - 22. Sp. LEUCITE.
 - 23. Sp. VESUVIAN.
 - 24. Sp. MEIONITE.
 - 25. Sp. FELSPAR.
 - a.* Common
 - b.* Resplendent
 - c.* Opalescent
 - d.* Green
 - e.* Blue
 - f.* Compact
 - g.* Tough
 - h.* Decomposed
 - 26. Sp. SODALITE.
 - 27. Sp. NATROLITE.
 - 28. Sp. SPODUMENE.
 - 29. Sp. AXINITE.
 - 30. Sp. TOURMALINE.
 - a.* Black
 - b.* Green
 - c.* Blue
 - d.* Red
 - 31. Sp. AMPHIBOLE.
 - a.* Crystallised
 - b.* Radiated
 - s.* Acicular
 - 32. Sp. HYPERSTÈNE.
 - 33. Sp. AUGITE.
 - a.* Crystallised
 - b.* Granular
 - c.* Compact
 - 34. Sp. JENITE.
 - 35. Sp. GADOLINITE.

36. Sp. SAHLITE.
 37. Sp. STAUROLITE.
 38. Sp. EPIDOTE.
 a. Crystallised
 b. Granular
 39. Sp. DIALLAGE.
 40. Sp. WERNERITE.
 a. Crystallised
 b. Prismatic
 c. Compact
 41. Sp. LAZULITE.
 42. Sp. MESOTYPE.
 43. Sp. LAUMONITE.
 44. Sp. APOPHYLLITE.
 45. Sp. STILBITE.
 46. Sp. CHABASIE.
 47. Sp. ANALCIME.
 48. Sp. PREHNITE.
 49. Sp. WAVELLITE.
 50. Sp. SOMMITE.
 51. Sp. HARMOTOME.
 52. Sp. PERIDOT.
 a. Crystallised
 b. Granular
 53. Sp. LEPIDOLITE.
 54. Sp. MICA.
 55. Sp. PINITE.
 56. Sp. DIPYRE.
 57. Sp. CHIASTOLITE.
 58. Sp. SAPPARE.
 59. Sp. TREMOLITE.
 60. Sp. ASBEST.
 a. Flexible
 b. Hard
 c. Suberiform
 d. Ligniform
 61. Sp. TALC.
 a. Indurated
 b. Laminated
 c. Foliated
 d. Earthy
 62. Sp. CHLORITE.
 a. Crystallised
 b. Foliated
 c. Earthy
 63. Sp. STEATITE.
 64. Sp. SERPENTINE.
 65. Sp. GREEN EARTH.
 66. Sp. BOLE.
 67. Sp. FULLERS EARTH.
 68. Sp. LITHOMARGA.
 69. Sp. POTTERS CLAY.
 70. Sp. WHET SLATE.
 71. Sp. DRAWING SLATE.

APPENDIX.

1. ADHESIVE SLATE.
2. ANDALOUSITE.
3. CEREOLITE.
4. CHUSITE.
5. DESMINES.
6. FIBROLITE.
7. FREISLEBEN.
8. IOLITHE.
9. KEFFEKILITHE.
10. LATIALITE.
11. LIMBELITE.
12. MELILITE.
13. PICOLITHE.
14. POLISHING SLATE.
15. SIDERO CLEPT.
16. SPATH DE GLACE.
17. SPINELLANE.
18. SPINTHERE.
19. TABULAR SPAR.
20. TRICKLASITE.
21. TURQUOISE.

3d CLASS.—INFLAMMABLE BODIES.

1. SP. DIAMOND.
2. SP. SULPHUR.
3. SP. AMBER.
4. SP. MELLITE.
5. SP. BITUMEN.
 - a. Liquid
 - b. Viscid
 - c. Elastic
 - d. Solid

6. SP. COAL.
 - a. Compact
 - b. Foliated
 - c. Brown coal
7. SP. ANTHRACITE.
8. SP. PLUMBAGO.

4th CLASS.—METALLIC MINERALS.

1. GEN. PLATINA
2. — GOLD.
3. — SILVER.
 1. SP. NATIVE
 2. — ANTIMONIAL
 3. — SULPH. ANTIM. SILVER
 4. — SULPHURATED
 5. — CARBONATE
 6. — MURIATE
4. GEN. MERCURY.
 1. SP. NATIVE
 2. — ARGENTIFEROUS
 3. — SULPHURET
 4. — MURIATE
5. GEN. LEAD.
 1. SP. NATIVE
 2. — SULPHURET
 3. — OXIDE
 4. — CARBONATE
 5. — PHOSPHATE
 6. — ARSENIATE
 7. — CHROMATE
 8. — MOLYBDATE
 9. — SULPHATE
 10. — MURIATE
6. GEN. NICKEL.
 1. SP. NATIVE
 2. — ARSENICAL
 3. — OXIDE
 4. — ANTIMONIAL

7. GEN. COPPER.
 1. SP. NATIVE
 2. — BLACK SULPHURET
 3. — YELLOW SULPHURET
 4. — GREY SULPHURET
 5. — OXIDE
 6. — BLUE CARBONATE
 7. — GREEN CARBONATE
 8. — MURIATE
 9. — PHOSPHATE
 10. — ARSENIATE
8. GEN. IRON.
 1. SP. NATIVE
 2. — MAGNETIC
 3. — SPECULAR
 4. — SULPHURET
 5. — OXIDE
 6. — CARBONATE
 7. — PHOSPHATE
 8. — ARSENIATE
 9. — CHROMATE
 10. — MURIATE
9. GEN. TIN.
 1. SP. OXIDE
 2. — SULPHURET
10. GEN. ZINC.
 1. SP. OXIDE
 2. — SULPHURET
 3. — CARBONATE

- | | |
|---|---|
| <p>11. GEN. BISMUTH.</p> <p>1. SP. NATIVE</p> <p>2. — SULPHURET</p> <p>3. SP. OXIDE</p> <p>4. — CARBONATE</p> <p>12. GEN. COBALT.</p> <p>1. SP. ARSENICAL</p> <p>2. — OXIDE</p> <p>3. — ARSENIATE</p> <p>4. — SULPHURET</p> <p>13. GEN. ARSENIC.</p> <p>1. SP. NATIVE</p> <p>2. — OXIDE</p> <p>3. — SULPHURET</p> <p>4. — MARTIAL SULPH.</p> <p>14. GEN. MANGANESE.</p> <p>1. SP. OXIDE</p> <p>2. — CARBONATE</p> <p>3. — SULPHURET</p> <p>4. — PHOSPHATE</p> | <p>15. GEN. ANTIMONY.</p> <p>1. SP. NATIVE</p> <p>2. — SULPHURET</p> <p>3. — OXIDE</p> <p>4. — SULPHURATED OXIDE</p> <p>16. GEN. URANIUM.</p> <p>17. GEN. MOLYBDENA.</p> <p>18. GEN. TITANIUM.</p> <p>1. SP. OXIDE</p> <p>2. — SIL. CAL. OXIDE</p> <p>19. GEN. WOLFRAM.</p> <p>1. SP. FERRUGINOUS</p> <p>2. — CALCAREOUS</p> <p>20. GEN. TELLURIUM.</p> <p>21. GEN. TANTALUM.</p> <p>22. GEN. CERIUM.</p> <p>1. SP. SILICEOUS OXIDE</p> <p>2. — BROWN OXIDE</p> <p>23. GEN. CHROMIUM.</p> |
|---|---|

METEORIC MINERALS.

- | | | |
|------------------|--|-------------------|
| 1. METEOROLITES. | \| | 2. METEORIC IRON. |
|------------------|--|-------------------|

EXPLANATION
OF THE
LIST OF SYNONYMES.

WHEN this Little Work formerly appeared, the list of names was confined principally to those used by HAUY, BROCHANT, KIRWAN, and JAMESON, with one German name, and such as appeared useful in the works of LUCAS and BRONGNIART. To these, very considerable additions are now made, and the terms given, which are used by all the mineralogists of any note whose works I could procure, or whose nomenclature is to be found in the new edition of LUCAS. In general, all that were not mere translations have been selected, although even these have, in many instances, been found indispensable. Some local terms and old names, which are almost obsolete, are likewise inserted; by the former, this work may be rendered useful to individuals who know nothing of mineralogy; and by the latter, the progress and improvement of the science will be remarked.

All the leading articles begin with the name employed in the synoptic arrangement, which is fol-

lowed by the word *Tables*, and a No. in Roman numerals, referring to the place where it may be found in the tables of chemical analyses. It is then followed by the synonymes of the name; and if the name be that of a mineral which presents different varieties, such as Amphibole, or Antimony, it is followed in regular succession by these varieties, with all their synonymes; each preceded by a small *a. b. c., &c.* or *i. ii. iii. &c.*; the latter, as a kind of distinction, I have used only in the metallic class. When these have sub-varieties, as Columnar or Acicular Sulphate of Barytes, they are marked *i. ii. iii., &c.*: so that Säulenspath, when it occurs under the letter S, is referred by the No. 16. to Barytes,—by *a.* to the first species Sulphate,—and by *i.* to the sub-variety Columnar.

The names used by HAUY, BROCHANT, KIRWAN, WERNER, and JAMESON, are distinguished by their respective initials, subjoined to the word by a small capital letter. The names of other authors are either given at length, or so abbreviated as not to be mistaken.

It is with regret that this volume is sent to the press before I could reap the benefit of Professor JAMESON's new edition of his System of Mineralogy. Anxious, however, to embrace the opportunity of leisure, which might not again occur, I could not venture to delay my publication, even for the short interval which is expected to elapse, before that valuable work makes its appearance.

MINERALOGICAL SYNONYMES.

ACHAT w, 24 d
 Achirite *Scoergeri*, 38 vii. b
 Acicular barytes—16 a ii.
 Acid boracique libre n, 22 a
 Acid carbonique n, 26 a
 Acid muriatique *Lucas*, 85 a
 Acid méphitique *Bevoly*, 26 a
 Acid of sea salt—85 a
 Acid sulfurique libre n, 122 a
 Acid vitriolique—122
 Acido muriatico *Petrini*, 85 a
 Acier natif *De la Métherie*, 64.1 b
 Acier natif, pseudo volcanique n, 64.1 b
 Actinolite j, Actinote n, 4 b
 Adamantine spar—39 b
1. ADHESIVE SLATE. TAB. LXXXIX.
 Adhesive slate j, Klebschiefer w,
 Polierschiefer n, Schiste à polir n,
 Argile feuilletée *Brong.* Schiste
 happant *Tondi*.
 Adulaire n, 48 b
 Adular w, Adularia j, 48 b
 Edelite n, 81 b
 Aërolithe—82
 Agalmatholithe *Klap.* 117 b
 Agaric mineral n, 25 f i.
 Agate j, 24 d
 Agathe *Delisle* 24 a
 Agathe verte-pomme *Deborn* 24 f
 Agathine chatoyante *Méth.* 103 g
 Aiguemarine 45 b
 Akanticonne *Dandrada*, 46 a
 Alabaster of the ancients j, 25 b
 Alabastrite *Méth.* 120 c
 Alalite *Bonvoisin*, 104

Alkali mineral n, 26 b
 Alkali mineral aère *Berg.* 26 b
 Alkali min. muriatique *Berg.* 85 b
 Alkali végétal nitré *Berg.* 89
 Alkali vol. muriatique *Delisle* 85 c
 Alkali volatil vitriolé *Berg.* 122 b
 Alkaline fluaté of alumine—2 b
 Allanite *Thomson*, 28 b
 Almandin *Karsten*, 55 a
 Allochromite n, n *appen.* 55 d ii.
 Alquistoux *Lucas* 70 ii.
 Alum—122 d
 Alumbro nativo *Herrgen*, 122 d
2. ALUMINE. TABLES, XVII.
 a. NATIVE. Pure clay j, Native argile n, Alumine pure *appen.* n, Aluminite, ou Kolyrit, *Karsten*, Reinethonerde w, Hydrargillite de Schemnitz, ou Hallite *Méth.* Argilla pura *Napione*.
 b. ALKALINE FLUATE. Cryolite j, Kryolith w, Chiolite *Méthérie*, Alumine fluatée alkaline, n.
 Alumine mellatée *Méth.* 79
 Alumine pure *appen.* n, 2 a
 Alumine sulfatée *Brong.* 122 d
 Alumine sulfatée alkaline n, 122 d
 Alumine sulfatée fibreuse n, 122 d i.
 Aluminite *Kars.* 2 a
 Alun natif n, 122 d
 Alun de plume *Bomarc*, 122 d i.
 Amalgam j, n, w, 80 ii.
 Amalgamo nat. de Plata, *Herrg* 80 ii.
 Amatita *Petr.* 64 v.
 Amazon stone—43 d

3. AMBER. TABLES, CXII.

Amber J, K, Ambre jaune ou Karabé *Deborn*, Ambra gialla *Petr.*
Bernstein w, Succin H, B.

Amethyste J, K, w, B, 103 b
Améthyste basaltine *Sage*, 94 b
Ametista *Napione*, 103 b
Amianth w, J, 13 a
Amianthinite K, 4 c
Amianthoïde H, 4 c
Amianthus K, 13 a
Amianto *Herrg.* 13 a
Ammites—25 c 1
Ammonia, *Muriate of*, 85 c
Ammonia, *Sulphate of*, 122 b
Ammoniaque muriaté H, 85 c
Ammoniaque sulfaté H, 122 b
Amorphous quartz K, 103 n
Ampelite graphique—44

4. AMPHIBOLE. TABLES, XLVIII.

a. CRISTALLISED. Amphibole, c'est à dire Equivoque ou ambigu, H, Amphibole schorlique *Brong.*
Basaltine K, Basaltische hornblende w, Basaltic hornblend J, Hornblende *Méth.* Orniblanda basaltica *Nap.* Lamellated var. Gabbro *Desmarest.*
b. RADIATED. Strahlstein w, Actinolite J, Actinote, c'est à dire Corps rayonné, formerly H, Asbestinite K, Rayonnante B, Schorl vert du Zillerthal ou Zillerthite *Méth.* Strahlite commune *Nap.*
c. ACICULAR. Amianthinite K, Asbestartiger strahlstein w, Asbestous actinolite J, Amphibole actinote aciculaire *Brong.* Amianthoïde *appen.* H, Byssolite *Saussure*, Asbestoïde, supposed by Cordier to be capillary amphibole.
Amphibole schorlique *Brong.* 4 a
Am. actinote aciculaire *Brong.* 4 c
Amphigène H, 72

5. ANALCIME. TABLES, LXIV.

a. Analcime H, c'est à dire Corps sans vigueur à cause de sa faible

vertu électrique qui recoit ce minéral, au moyen de frottement.
Cubic zeolite J, Kubezit w, Analcim *Kars.* Zeolithe de 24 facettes B, var. de Wurfel zeolith *Reuss.* Zeolithe dur *Méth.*
b. Sarcolite *Thoms.* Analcime cubo-octaèdre *Lucas*, Hydrolite *Dedrée*, Sarcolite de Viscentin, *Faujas.*

Analcime cubo-octaèdre *Lucas*, 5 b
Anatase H, 128.1 a

6. ANDALUSITE. TABLES, XC.

Andalusit w, Feldspath apyre *appen.* H, Hardspar J, Stanzait *Flurl*, Mikaphyllite *Brunner*, Feldspath du Forez *Guyton.*

Andréasbergolithe *Méth.* 59

Anhydrit w, 120 c

Anthophyllite *Schum.* H, w, 60 b

Anhydrous sulphate of lime—120 c

7. ANTHRACITE. TABLES, CXVI.

a. MASSIVE. Glance coal J, Native mineral carbon K, Anthracite H, Plombagine charbonneuse ou anthracolite *Deborn*, Kohlenblende *Estner*, Houillite *Daub.* Blende charbonneuse B, Carbon oxydulé ou Géanthrace *Tondü*, Coalblend, Blind coal, &c.

b. FOLIATED. Slaty glance coal J, Schieferige glanz kohle w, Gemeiner anthracite *Kars.* Kilkeny coal—

c. COMPACT. Conchoidal glance coal J, Muschliche glanz-kohle w, Schlakiger anthracit *Kars.* Houille éclatante B.

Anthracolite *Deborn*, 7 a

Anthraconite *Beurard*, 25 m 3

Antimoine—8

Antimoine blanc B, 8 iii.

Anti. gris B, 8 ii.

Anti. hydro sulfuré H, 8 iv.

Anti. natif H, B, 8 i.

Anti. oxidé H, 8 iii.

Anti. oxidé sulfuré H, 8 iv.

- Antimoine en plumes *B*, 8 ii. *a*
 Anti. rouge *B*, 8 iv.
 Anti. sulfuré *H*, 8 ii.
 Anti. sulfuré pur *Brong.* 8 ii.
 Anti. sulfuré capillaire *H*, 8 ii. *a*
 Antimoine vierge *Bomare*, 8 i.
 Antimonial ochre *K*, 8 iii. *a*
 Antim. silver 108 ii.
 Antim. sul. of lead *Thoms.* 70 ii. *c*
 Antimoniated nat. silver *K*, 108 ii.

8. ANTIMONY. TABLES, CXXXII.
 ANTIMOINE *Fr.* STIBIUM *Lat.*
 SPIESGLASS *Ger.*

- i. NATIVE ANTIMONY. Native antimony *J*, *K*, Antimoine natif *H*, *B*, Gediegen spiegelglas *w*, Gediegen Spiesganz *Kars.* Antimoine vierge *Bomare*.
 ii. SULPHURET OF ANTIMONY. Grey antimony *J*, Sulphurated antimony *K*, Antimoine sulfuré *H*, Grau spiegelaserz *w*, Antimoine gris *B*, Antimoine sulfuré pur *Brong.* Galena antimoniale *Petr.*
a. CAPILLARY. Feather Antimony *J*, Plumose antimony *K*, Antimoine sulfuré capillaire *H*, Antimoine en plumes *B*, Fedcrerz *w*, Mine d'argent en plumes—
 iii. OXIDE OF ANTIMONY. White antimony *J*, Muriated antimony *K*, Antimoine oxydé *H*, Antimoine blanc *B*, Chaux d'antimoine natif *Mongez*, Weis spiegelaserz *w.*
a. EARTHY. Antimony ochre *J*, Antimonial ochre *K*, Ochre d'antimoine *B*, Spiesglas okker *w*.
 iv. SULPHURATED OXIDE OF ANTIMONY. Red antimony *J*, Red antimonial ore *K*, Antimoine oxydé sulfuré, formerly Ant. hydrosulfuré *H*, Antimoine rouge *B*, Kermes mineral natif *Deborn*, Rothspiegelaserz *w*.

Antimony ochre *J*, 8 iii. *a*
 Apatit *w*, Apatite commune *B*, 94 *a*
 Apatite *Herrg.* *J*, 94 *a*

Aphrit verharteter *Kars.* 25 *d*
 Aphrit zerreiblicher *Kars.* 25 *d* ii.
 Aphrizit *Dandrade*, 130 *a*
 Aplome *H*, 55 *d* i

9. APOPHYLLITE. TABLES, LXI.

Fish eye-stone *J*, Apophyllite *H*,
 Ichtiophthalme *B*, Zeolithe d'Hel-
 lesta *Rimman*, Fischaugenstein *w*.

Appatite *J*, 94 *a*
 Aquamarine—45 *b*
 Arendalit *Reuss.* 46 *a*
 Arena de Hierro magnetico *Herrg.*
 64 ii.

Argent—108

Argent antimonial *H*, *B*, 108 ii.
 Ar. antimonie sulfuré *H*, 108 iii.
 Ar. ant. ferro-arsenifère 108 *H*, ii. *a*
 Ar. ant. sulfuré noire *H*, 108 iii. *a*
 Ar. arsenical *B* 108 ii. *a*
 Ar. blanc *Brong.* 70 ii. *d*
 Ar. blanc de Freyberg—70 ii. *d*
 Ar. carbonaté *H*, 108 v.
 Ar. corné *B*, 108 vi.
 Ar. en épis, 38 ii. *b*
 Ar. merde d'oie *B*, 37 iii. *a*
 Ar. muriaté *H*, 108 vi.
 Ar. muriaté terreux *B*, 108 vi. *a*
 Ar. natif *H*, 108 i.
 Ar. natif aurifère *H*, 108 i. *a*
 Ar. noir *H*, *B*, 108 iii. *a*
 Ar. rouge *B*, 108 iii.
 Ar. sulfuré *H*, 108 iv.
 Ar. vierge *Delisle*, 108 i.
 Ar. vitreux *B*, 108 iv.
 Ar. vitreux aigre *B*, 108 iii. *a*
 Argentine *K*, 25 *d*
 Argentiferous mercury—80 ii.
 Argentum—108
 Argile calcarifère *H*, 25 i.
 Arg. cimolithe *Brong.* 53 *a*
 Arg. commune *Deborn*, 101
 Arg. feuilletée *Brong.* 1
 Arg. glaise *H*, 101
 Arg. legere *Brong.* 101 *d*
 Arg. martiale *Deborn*, 21
 Arg. ocreuse *H*, 21
 Arg. plastique *Brong.* 101

Argile à pipe *B*, 101 *a*
 Arg. à potier *B*, 101
 Arg. schisteuse graphique *H*, 44
 Arg. schisteuse novaculaire *H*, 138
 Arg. smectique *H*, 53
 Arg. verte di monte Baldo *Nap.* 57
 Arg. vitriolatée *Berg.* 122 *d*
 Argilla pura *Nap.* 2 *a*
 Argillaceous carb. of lime—25 *i*.
 Argillolite *Brong.* 101 *b*
 Arktizit *w*, 137 *a*
 Arménite *Méth.* 38 *vi. a*

10. ARRAGONITE. TABLES, VII.

- a.* CRISTALLISED. Arragone *J*, Arragone spar *K*, Arragonite *B*, *H*, Chaux carbonatée dure *Bournon*, Igloït *w*, Stängelkalk *Schumacher*, Excentricher kalkstein *Karsten*, Hard calcareous spar—
b. CORALLIFORME. Chaux carb. coralloïde *H*, Kalk sinter *w*, Eisen blüthe—Floss Ferri—
 Arseniate of cobalt—37 *iii*.
 Arseniate of copper, 38 *x*.
 Arseniate of iron, 64 *viii*.
 Arseniate of lead, 70 *vi*.

11. ARSENIATE OF LIME. TAB. XII.

Arsenic bloom *J*, Chaux arseniatée *H*, Arsenic blüthe *w*, Pharmacolite *Karsten*.

12. ARSENIC. TABLES, CXXX.

ARSENICUM *Lat.* ARSENIK *Ger.*

- i.* NATIVE. Native arsenic *J*, *K*, Arsenic natif *H*, Gediegenarsenik *w*.
ii. OXIDE. Native calx of arsenic *K*, Arsenic oxydée *H*, Arsenik blüthe *Kars.*
iii. SULPHURET. *Red variety*, Realgar; Sandarac *Deborn.* *Yellow do.* Orpiment; Arsenic sulfuré *H*, Rauschgelb *w*.
iv. PYRITES. Arsen. pyrites *J*, *K*, Fer arsenical *H*, Pyrite arsenicale *B*, Arsenic kies *w*, Mispickel *Delisle*, Arsenic pyriteux *Deborn*, Mar-

casitta *Petrini*, Pyrita venenosa *Herrg.*

Silverish arsenical pyrites *J*, Pyrite arsenicale argentifère *H*, Fer arsenical argentifère *B*, Pyrite d'argent *Bomarc*, Weiserz *w*, Edler arsenik-kies *Kars.* Mina arsenical blanca *Herrg.*

Arsenic bloom *J*, 11
 Arsenic oxydée *H*, 12 *ii*.
 Arsenic pyriteux *Deborn*, 12 *iv*.
 Arsenic sulfuré *H*, 12 *iii*.
 Arsenical cobalt—37 *i*.
 Arsenical nickel—87 *ii*.
 Arsenical pyrites *J*, *K*, 12 *iv*.
 Arsenical silver ore *J*, 108 *ii. a*
 Arsenicated nat. silver *K*, 108 *ii. a*
 Arsenik blüthe *w*, 11
 Arsenik blüthe *Karsten*, 12 *ii*.
 Arsenik gediegen, 12 *i*.
 Arsenik kies *w*, 12 *iv*.
 Arsenik silber *w*, 108 *ii. a*
 Arménite *Méth.* 38 *vi. a*

13. ASBEST. TABLES, LXXVII.

- a.* FLEXIBLE. Amianth *J*, *w*, Amianthus *K*, Asbeste flexible *H*, Biegsamer asbest *Kars.* Lino fossile *Nap.* Lino de piedra amianto *Herrg.* Asbeste mür, des anciens mineralogistes.
b. HARD. Common asbest *J*, Asbestus *K*, Asbeste dur *H*, Gemeiner asbest *w*, Asbeste commune *Nap.* Asbeste non mür—
c. SUBERIFORME. Rock cork *J*, Suber montanum *K*, Asbeste tressé *H*, Berg kork *w*, Schwimmender Asbest *Kars.* Liège de montagne *B*, Mountain leather, Mountain paper, &c.
d. LIGNIFORME. Rock wood *J*, Ligniform asbestus *K*, Asbeste ligniforme *H*, Berg holz *w*, Holz asbest *Kars.* Ligno montano *Nap.*

Asbeste commune *Nap.* 13 *b*
 Asbeste dur *H*, 13 *b*
 Asbeste flexible *H*, 13 *a*
 Asbeste ligniforme *H*, 13 *d*

Asbeste mûr—13 *a*
 Asbeste non mûr—13 *b*
 Asbeste tressé *n*, 13 *c*
 Asbestinite *κ*, 4 *b*
 Asbestoïde—4 *c*
 Asbestous actynolite *j*, 4 *c*
 Asbestos *κ*, 13 *b*
 Asparagus stone *j*, 94 *b*
 Asphaltum *Hatchet*, 20 *d*
 Asteria *Kidd*, 39 *a*
 Atacamite—38 viii.

14. AUGITE. TABLES, L.

- a*. CRISTALLISED. Augit *j*, *b*, *w*,
 Pyroxène *c'est à dire*, Hôte ou
 étranger dans le domaine du feu
n, Octohedral basaltine *κ*, Volcanic
 schorl—Volcanite, also Viris-
 cite *Méth.*
b. GRANULAR. Pyroxène granuli-
 forme *n*, Körniger augit *Kars.*
 Pyroxène coccolithe *Brong.* Coc-
 colit, *Andrada*, Kokkolith *w*.
c. COMPACT. Pyroxène en roche
Charpentier, Lherzolite *Métherie.*
 The last suspects this may be a
 var. of Diallage.

Augustit *Reuss*, 94 *b*

Aurum—56

Aurum graphicum, 126 ii.

Aurum problematicum, 126 i.

Automolite *Ekberg*, 112 *b*

Avanturine *b*, 103 *k*

Axe stone *j*, 48 *g* ii.

15. AXINITE. TABLES, XLVI.

Axinite *n*, *c'est à dire*, corps
 aminci en forme de tranchant de
 Hache. Axinite *w*, Thumer-
 stone *j*, *κ*, Pierre de thum *b*,
 Schorl transparent lenticulaire
Delisle, Schorl violet *Mongez*, Ya-
 nolite *Méth.* Glass schorl and
 Glass stein *Widenman*, Lumite
Napione.

Azogue hepatico *Herrg.* 80 iii. *b*

Azogue nativo *Herrg.* 80 i.

Azufre nativo *Herrg.* 121

Azul de cobre *Herrg.* 38 vi.

Azur de cuivre *b*, 38 vi.

Azure stone *j*, 69

Azuro de montagna *Petr.* 38 vi. *a*

BAIKALITE *n*, 131 *a*

Balas ruby—112

Baldogée *Saussure*, 57

Balsamo de montaña *Herrg.* 20 *a*

Bardiglione *Bournon*, 120 *c*

Barite vitriolata *Nap.* 16 *a*

Baritite *Méth.* 16 *a*

Barolite *κ*, 16 *b*

Baroselenite *κ*, 16 *a*

Baryte carbonatée *n*, 16 *b*

Baryte aérée *Deborn*, 16 *b*

Baryte hépatique *Deborn*, 16 *a* iv.

Baryte sulfatée *n*, 16 *a*

Baryte sulfatée bacillaire *n*, 16 *a* i.

Baryte sulfatée fœtide *n*, 16 *a* iv.

Baryte sulfatée radiée *n*, 16 *a* iii.

16. BARYTES. TABLES, XIV.

- a*. SULPHATE. Heavy spar *j*, Ba-
 roselenite *κ*, Baryte sulfatée *n*,
 Spath pesant *b*, Gypse pesant
d'Arcet, Spath fusible *Bucquet*,
 Baritite *Méth.* Barite vitriolata
Nap. Schwerspath *w*, Ponderous
 spar—Cawk—

i. Columnar. Columnar heavy
 spar *j*, Columnar spar *κ*, Säulen-
 spath *w*.

ii. Acicular. Baryte sulfatée ba-
 cillaire *n*, Spath pesant en barres
b, Stangenspath *w*, Prismatic
 heavy spar *j*.

iii. Radiated. Bolognese spar *j*,
 Baryte sulfatée radiée *n*, Spath
 de Boulogne *b*, Striated barytes
κ, Espato de Bolonia *Herrg.* Bo-
 logneser spath *w*, Lithéosphore
Méth.

iv. Hepatic. Baryte sulfatée fœ-
 tide *n*, Hepatit *Klap.* Leberstein
Crons. Liverstone *κ*, Baryte hé-
 patique *Deborn*, Pietra epatica
Petr.

- b*. CARBONATE. Witherite *j*, *b*, *w*,

Barolite κ , Baryte carbonatée η ,
Baryte aérée *Deborn*, Witerite
Nap.

17. BASALT. TABLES, XXVII.

Basalt \jmath , w , Basaltes κ , Basalte ν ,
Lave lithoïde basaltique η , Trap,
Rowley rag, Whinstone—

18. BASALT TUFF. TAB. XXVIII.

Basalt tuff \jmath , w , Tuff basaltique
 ν , Trap tuff κ .

Basalt transparent *Delisle*, 130 a

Basaltic hornblend \jmath , 4 a

Basaltische hornblende w , 4 a

Basaltine κ , 4 a

Basaltine octohedral κ , 14 a

Basanite κ , 103 i

Baudisserite *Méth.* 75 b

Baume-momie—20 b

Beilstein *Emm.* 48 g ii.

Berg butter w , 122 d 2

Berg kristal w , 103 a

Berg holz w , 13 d

Berg kork w , 13 c

Berg mehl *Kars.* 101 d

Berg milch w , 25 f i.

Berg öl *Kars.* 20 a

Berg theer w , 20 b

Bergmanite—60 b

Beril aiguemarine *Brong.* 45 b

Beril émeraude *Brong.* 45 a

Beril feuilleté *Sage*, 105

Beril noble ν , 45 b

Beril de oro *Herrg.* 33

Beril de saxe—94 b

Beril schorliforme ν , 129 $ap.$ i.

Beril schörartiger w , 129 $ap.$ i.

Berillo *Nap.* 45 b

Beryll \jmath , 45 b

Bernstein w , 3

Beurre de montagne ν , 122 d ii.

Bézoard minéral—25 c i.

Bhur stone of France—103 n i.

Biegsamer asbest *Kars.* 13 a

Bildstein w , 117 a

Bimsstein w , 68 b

19. BISMUTH. TABLES, CXXVIII.

WISMUTH *Ger.* WISMUTHUM *Lat.*

i. NATIVE. Native bismuth \jmath , κ ,
Bismuth natif η , ν , Gediegen
wismuth w .

ii. SULPHURET. Bismuth glance
 \jmath , Bismuth sulfuré η , Wismuth
glanz w , Galene de bismuth ν .

a . Needle ore \jmath , Nadelierz w , Bis-
muth sul. plumbo cuprifère η .

iii. OXIDE. Bismuth ochre \jmath , κ ,
Bismuth oxydé η , Ocre de bis-
muth ν , Wismuth okker w .

iv. CARBONATE.

Bismuth glance \jmath , 19 ii.

Bismuth natif η , ν , 19 i.

Bismuth ochre \jmath , κ , 19 iii.

Bismuth oxydé η , 19 iii.

Bismuth sulfuré η , 19 ii.

Bismuth sul. plumbo cuprifère η ,
19 ii. a

Bittersalz w , 122 c

Bitterspath ν , 25 l

Bitterspath stänglicher *Klap.* 25 l 2.

Bitume élastique η , 20 c

Bitume de Judée *Delisle*, 20 d

Bitume glutineux η , 20 b

Bitume liquide η , 20 a

Bitume solide η , 20 d

20. BITUMEN. TABLES, CXIV.

a . LIQUID. Fossil oil \jmath , Petrol κ ,
Bitumeliquide η , Huille minérale
commune ν , Erdöl w , Bergöl
Kars. Naphta—when transpa-
rent, Naphte *Deborn*, Balsamo de
montaña *Herrg.*

b . VISCID. Bitume glutineux η ,
Mineral pitch \jmath , Goudron mine-
ral ν , Berg theer w , Zähes erd-
pech *Kars.* Pissasphalte *Daub.*
Malta *Petr.* Poix mineral *Delisle*,
Mineral tar.—In Persia, Baume-
momie *Brong.*

c . ELASTIC. Elastic mineral pitch
 \jmath , Mineral cahoutchou κ , Bi-
tume élastique η , Poix mineral
élastique ν , Elastisches erdpech
 w .

Dapêche *Humboldt*, Var. of Elas-
tic bitumen *Lucas*.

δ. Soliv. Slaggy mineral pitch *J*, compact mineral pitch *K*, Asphaltum *Hatchet*, Bitume solide *H*, Poix mineral Scoriacée *B*, Schlackiges erdpech *w*, Bitume de Judée *Delisle*.

Bituminöse holzerde, 36 *c* iv.
 Bituminöses holz *w*, 36 *c* i.
 Bituminous carbonate of lime, 25 *k*
 Bituminous marlite *K*, 25 *k*
 Bituminous wood *J*, 36 *c* i.
 Black carbonate of lead—70 iv. *a*
 Black chalk *K*, 44
 Black cobalt ochre *J*, 37 ii.
 Black copper ore *K*, 38 ii. *a*
 Black friable cinnabar *J*, 80 iii. *c*
 Black garnet—55 *c*
 Black lead ore *K*, *J*, 70 iv. *a*
 Black sulphuret of copper—38 ii.
 Black sylvan ore *J*, 126 ii.
 Black wad—99
 Black wad, des Anglais *Lucas*, 76 i *c*
 Blätter zeolith *w*, 118
 Blättererz *Kars*. 126 iii.
 Blätterkohle *w*, 36 *b*
 Blättricher beril von Seifen, 129
 Blättricher chlorit *w*, 31
 Blau spath—69 *a*
 Blauer quarz *Germ*. 91 *c*
 Blei—70
 Blei vitriol *w*, 70 ix.
 Bleierde *w*, 70 iii. & iv. *b*
 Bleierz blau *w*, 70 v. *a*
 Bleierz braun *w*, 70 v.
 Bleierz gelb *w*, 70 viii.
 Bleierz grün *w*, 70 v.
 Bleierz roth *w*, 70 vii.
 Bleierz schwarz *w*, 70 iv. *a*
 Bleierz weis, *w*, 70 iv.
 Bleiglanz *w*, 70 ii.
 Bleiniere *w*, 70 vi.
 Bleischweif *w*, 70 ii. *a*
 Bleispath *Dunkler*, *Kars*. 70 iv. *a*
 Bleivitriol *w*, 70 ix.
 Blenda *Herrg*. 140 iii.
 Blenda picea *Herrg*. 134 ii.
 Blende *B*, *K*, *w*, *J*, 140 iii.
 Blende charbonneuse *B*, 7 *a*

Bleu martial fossile cristallisé
Sage, 64 vii.
 Bleu de montagne *B*, 38 vi. *a*
 Blind coal—7 *a*
 Bloodstone—24 *c*
 Blue calciforme copper ore *K*, 38 vi.
 Blue felspar—48 *c*
 Blue lead ore *J*, *K*, 70 v. *a*
 Blue martial earth *K*, 64 vii. *a*
 Blue opal—91 *c*
 Blue quartz—103 *c*
 Blue tourmaline—130 *c*
 Blue vitriol—122 *g*
 Bol *w*, 21

21. BOLE. TABLES, LXXXIII.

Bole *J*, *K*, *B*, Argile ochreuse *H*,
 Ocre *Brong*. Bol *w*, Argile mar-
 tiale *Deborn*.
 Bog ore *J*, 64 vii. *b*
 Bohnerz *w*, 64 vi. *c*
 Bois bitumineux *B*, 36 *c* i.
 Bolide—82
 Bolognese spar *J*, 16 *a* iii.
 Bologneser spath *w*, 16 *a* iii.
 Borace *Petr*. 22

22. BORACIC SALTS. TABLES, II.

a. NATIVE BORAX. Acid boracique
 libre *H*, Sassolin *Kars*. Sel séda-
 tif *Homborg*, *s*.
b. BORATE OF SODA. Borax *K*, Soude
 boratée *H*, Borax natif *B*, Tinkal
Kars. Borace *Petr*.—In Persia,
 Baurachs *Brong*.

Boracite *J*, *B*, 75 *c*
 Boracited calx *K*, 75 *c*

23. BORATE OF LIME. TABLES, XIII.

a. Chaux boratée siliceuse *H*, Da-
 tholite *Esmark*, Chaux datholite
Brong.
b. Botrioidal. Chaux boratée con-
 cretionnée *H*, Botriolite *Leonhard*.

Borate of magnesia—75 *c*
 Borate of soda—22 *b*
 Borax *K*, 22 *b*
 Borax natif *B*, 22 *b*

Bostrichites *Walker* 102
 Botriolite *Leonhard*, 23 *b*
 Bournonite *J*, 70 ii. *c*
 Bournonite *Lucas*, 49
 Bovey coal—36 *c i*
 Braun menacanerz *w*, 128 ii.
 Brauner eisenokker *w*, 64 *v. g*
 Braunkohle *w*, 36 *c*
 Braunspath *w*, 25 *n*
 Braunstein *w*, 76
 Braunstein kiesel *Reuss*, 55 *f*
 Braunsteinerz *rot* *w*, 76 ii.
 Braunsteinerz *grau* *w*, 76 *i*.
 Brezilienne *Saus*, 129
 Brick red copper ore *K*, 38 *v. b*
 Brick coloured mesotype—81 *b*
 Brimstone—121
 Bright white cobalt ore *K*, 37 *i. b*
 Brittle silver glance *K*, 108 iii. *a*
 Broad foliated gypsum—120 *a*
 Bronzit *Kars*, 41 *b*
 Brown coal *J*, 36 *c*
 Brown cobalt ochre *J*, 37 ii.
 Brown flint—50 *c*
 Brown hematite *J*, *K*, 64 *v. f*
 Brown gossan of Cornwall—139 *i*.
 Brown iron ochre *K*, 64 *v. g*
 Brown lead ore *K*, *J*, 70 *v*.
 Brown opal—91 *d*
 Brown ore *Thoms*, 128 ii.
 Brown oxide of Cerium—28 *b*
 Brown spar *J*, 25 *n*
 Brunispat *Nap*, 25 *n*
 Bucham—112
 Bunt kupfererz *w*, 38 iii. *a*
 Buttermilcherz *w*, 108 vi.
 Byssolite *Saussure*, 4 *c*

CACHALONG *Petrini* 24 *b*
 Cachelonio *Nap*, 24 *b*.
 Cadmia *Pliny*, 140 *i*.
 Cahoutchou mineral *K*, 20 *c*
 Calamine *J*, *B*, *K*, 140 *i*.
 Calc schaum *J*, 25 *d ii*.
 Calc sinter *J*, 25 *b*
 Calcareous spar—25 *a*
 Calspar *J*, 25 *a*

Calcareous iron ore *K*, 64 *vi*.
 Calcareo sil. titanitic ore, *K*, 128 ii.
 Calcareous wolfram—139 ii.
 Calcedoine *B*, 24 *a*
 Calcedoine alterée *Delisle*, 24 *b*
 Calcedoine chrysoprase *Bour*, 24 *f*
 Calcedoine silex *Bour*, 50 *a*
 Calcedoine voltanique *Nonnull*, 91 *fi*.

24. CALCEDONY. TABLES, XIX.

- a*. STALACTITICAL. Common calcedony *J*, *K*, Quarz agathe calcedoine *n*, Gemeiner kalzedon *w*, Calcedoine *B*, Quartz en stalactite, et Agathe *Delisle*, Silex calcedoine et Silex agathe *Brong*, Gemeiner chalcedon *Kars*.
- b*. WHITE. Cachalong *Patrin*, Quarz agathe cacholong *n*, Silex cacholong *Brong*, Calcedoine alterée *Delisle*, Perimutter opal *Karsten*, Cachelonio *Nap*.
- c*. COLOURED. Carnelian *J*, *K*, Quarz agathe cornaline *n*, Cornaline *B*, Silex cornaline *Brong*, Karneol *w*, Carniola *Herrg*, Sard—Sardoine—Sardonix—
- d*. VARIEGATED. Agate *J*, Quarz agathe onyx, Sardoine Panachée et Dendritique *n*, Achat *w*, Ribband, Zoned, and Fortification agate—
- e*. GREEN. Heliotrop *J*, *w*, Quarz agathe ponctué *n*, Jaspe sanguin, Bloodstone, &c.—Stephanstein in Germany.
- f*. CHRYSOPRASE. Chrysoprase *J*, *B*, Chrysoprasium *K*, Quarz agathe prase *n*, Calcedoine chrysoprase *Bournon*, Agathe vert de pomme *Deborn*, Mere d'émeraude *Nonnull*, Prase ou Chrysoprase *Delisle*, Prasio *Petr*, Krysopras *w*.
- g*. MASSIVE. Hornstone *K*, Quarz agathe grossier *n*, Néopetre *Saussure*, Petrosilex *Deborn*, Keratite *Méth*, Splittiger hornstein

W. Kars. Pierre de corne infusible *n*, Silx corné *Brong.*

Calchante—122 *g*

Calcforn silver ore *n*, 108 *v*.

Calp *n*, 25 *m* ii.

Cannel coal *j*, 36 *a* ii.

Cantalite *Kars.* 103 *l* i.

Capillary alum *n*, 122 *c* i.

Capillary pyrites—87 *i*.

Carbo—36

Carbon, with 1-4th iron, *n*, 99

Carbonate of barytes—16 *b*

Carbonate of copper, *blue*—38 *vi*.

Carbonate of copper, *green*—38 *vii*.

Carbonate of iron—64 *vi*.

Carbonate of lead—70 *iv*.

25. CARBONATE OF LIME. TAB. VI.

a. CRISTALLISED. Calc spar *j*, Common spar *n*, Chaux carbonatée cristallisé *n*, Spath calcaire *n*, Kalkspath *w*, Späthiger kalkstein *Kars.* Doppelspath *Ger.* Calcareous spar—Iceland spar—

b. STALACTITICAL. Calc sinter *j*, Chaux carbonatée concrétionnée *n*, Kalksinter *w*, Inolite *Gallizin*, Alabaster of the ancients *j*.

c. FIBROUS. Fibrous limestone *j*, Chaux carbonatée à fibres soyeuses *n*, Faseriger kalkstein *w*, Satin spar *Kidd*.

d. FOLIATED. *Solid.* Slate spar *j*, Chaux carbonatée nacrée *n*, Spath schisteux *n*, Argentine *n*, Chaux carb. dépressée *Bournon*, Schieferspath *w*, Verhäteter aphrit *Kars.* Schisto spato *Nap.*

i. Schalstone *j*, Schaalstein *w*, Pierre calc. testacée *n*, var. of Schieferspath according to *Brong.*

ii. *Pulverulent.* Calc schaum *j*, Ecume de terre *n*, Schaumerde *w*, Zerreiblicher aphrit *Kars.*

e. OVIFORM. Roestone *j*, Oviform limestone *n*, Chaux carb. globuliforme *n*, Oolite *n*, Rogenstein *n*, Tufo oolítico *Nap.*

i. Peastone *j*, Ch. carb. glob. testacée *n*, Pisolithe *n*, Stalactite globuleuse *Deborn*, Erbsenstein *w*, Bézoard minéral *Brong.* Dragée de Tivoli, Ammites, Orbites, Meconites—

f. EARTHY. *Solid.* Chalk *j*, Chaux carb. crayeuse *n*, Kreide *w*, Craie *n*, Creta coherens solida *Wall.*

i. *Pulverulent.* Rock milk *j*, Agaric mineral *n*, Chaux carb. spongieuse *n*, Lait de montagne *n*, Bergmilch *w*, Creta farinacea spongiosa *Wall.* Lac lunæ—

g. GRANULAR. Chaux carb. saccharoïde *n*, Pierre calcaire grenu *n*, Körniger kalkstein *w*, Primitive limestone, Statuary marble, Saline marble, &c.

Canil *n*, a name given to the arenaceous limestone of Antrim, which fritters with the pressure of the fingers. It contains 47. of c. acid according to *Kirwan*, and possesses a sp. gr. of 2.74.

h. COMPACT. Compact limestone *j*, *n*, Chaux carb. compacte *n*, Dichter kalkstein *w*, Mehlbaz a name given to an impure limestone of Thuringia.

i. ARGILLACEOUS. Marle earth *j*, Earthy marle *n*, Argile calcari-fère *n*, Marne argilleuse *Brong.* Mergel erde *w*, Marne terreuse *n*, Leuttrite *Lucas*, a phosphorescent marle from Leuttra in Saxony.

k. BITUMINOUS. Bituminous marlite *n*, Chaux carbonatée bituminifère *n*, Schiste marno bitumineux *n*, Bituminöser mergel-schiefer *w*.

i. Swine stone *n*, Stinkstone *j*, Chaux carb. fétide *n*, Pierre puante *n*, Stinkstein *w*.

l. MAGNESIAN. *Cristallised.* Rhomb spar *j*, Cristallised muricalcite *n*, Bitterspath *n*, Picrite *Brong.*

- Ch. carb. magnésifère cristallisée n, Rautenspath w, Kristallisirter dolomit *Kars.* Talkspath *Estner.* Miemite *Reuss.* Spath composé *Woulfe.* Chaux magnésifiée *Deborn.*
- i. *Prismatic.* Stänglicher biterspath *Klap.*
 - ii. *Granular.* Dolomite j, w, Chaux carb. magnésifère granulaire n, Chaux carb. lente *Brong.* Common dolomite—
 - iii. *Compact.* Gurofian *Klap.* Gurhosian *Lucas.* Ch. carb. mag. compacte n—found between Gurhos and Aggsbach in Lower Austria.
- m. *QUARTZOSE. Crystallised.* Chaux carb. quarzifère n, Grès cristallisé de Fontainebleau n, Crystallised sandstone. The workmen denominate the sandstone of Fontainebleau pif, paf, pouf, according to its hardness; the first resists the stroke of the hammer; the second is remarkable for its facility in breaking; and the third is reduced to powder by a very gentle stroke.—*Mittelstein Hauguet.* a lamellated var. from Moustiers, *Lucas.*
- i. Conite *Reuss.* Quarz agathe calcifère n, Silex silicicalce *Brong.*
 - ii. Calp *Kirwan.* Chaux carb. calp *Brong.*
 - iii. Madrepore n, b, Madreporestein *Kars.* Anthrakonit *Beurard.*
- n. *FERRO-MANGANESEAN.* Brown spar j, sidero calcite k, Chaux carb. ferro magnésifère n, Spath brunissant n, Brunispatio *Nap.* Chaux manganésifiée *Deborn.* Braunsparth w, Pearl spar—
- Carbonate of magnesia—75 b
Carbonate of nickel *Daub.* 87 iii
Carbonate of soda—26 b
Carbonate of silver—108 v
Carbonate of strentites *Hope.* 119 a

Carbonate of zinc—140 ii

Carbone pur *Tondi.* 42

26. CARBONIC SALTS. TABLES, I.

- a. *NATIVE.* Acid carbonique n, Spiritus lethalis *Anc.* Spiritus sylvestris *Van Hell.* Acid méphitique *Berzely.* Kohlenstoffsaure *Germ.* Fixed air—
- b. *CARBONATE OF SODA.* Natural soda j, Soude carbonatée n, Alkali mineral n, Alkali mineral aéré *Berg.* Natron *Kars.* Natron ou nitre des anciens *Lucas.* Soude blanche d'Egypte *Delisle.*

Carbon with 1-10th iron k, 99

Carbonated wood k, 36 c i

Carbone oxydulé *Tondi.* 7 aCarbone oxydulé ferruginé *Tondi.* 99

Carbunculus—55 a

Carnelian k, j, 24 c

Carniola *Herrg.* 24 c

Carpenters chalk—44

Cats eye j, k, 103 g

Cawk—16 a

Ceilanite *Reuss.* 112 a

Celestine j, n, w, 119

Cellular quartz j, 103 n i

Céranite—82, 48 g ii

Cererit *Kars.* 28 aCesium *Kars.* 28

27. CEREOLITE. TABLES, XCI.

Céréolite, de Drée, named from its similarity to wax, found in Corsica, Provence, Saxony, &c. and improperly considered as Steatite—*Musée mineralogique.*

28. CERIUM. TABLES, CXXXIX.

CERERIUM *Kars.* CERIUM n.

- i. Cérium oxydé silicifère n, Céririt *Kars.* Cérit *His.* Cérium oxydé rouge *Méth.* Tungstene de Bastnæs *Crons.*
- ii. Brown oxide of cerium—Cerin *His.* Allanite *Thoms.* Cérium allanite *Méth.*

CER

Cerin *His.* 28 *b*
 Cerit *His.* 28 *a*
 Cérium allanite *Méth.* 28 *b*
 Cérium oxydé rouge *Méth.* 28 *a*
 Cérium oxydé silicifère *n.* 28 *a*
 Céruse native *K.* 70 *iii*
 Ceilanite *Reuss.* 112 *a*
 Ceylanite *J.* 112 *a*

29. CHABASIE. TABLES, LXIII.

Chabasie *n.* Tiré d'un mot grec, qui désigne une certaine espèce de pierre. Zeolithe cubique *n.*
 Cubic zeolite *K.* Schabasit *w.*
 Chabasin *Kars.* var. du Würfel zeolithe *Reuss.*

Chabasin *Kars.* 29

Chalk *J.* 25 *f*
 Chalkolite *w.* 134 *i*
 Chalcedon gemmeur. *Kars.* 24 *a*
 Charbon de terre—36
 Charbon schisteux *n.* 36 *b*
 Charlo volcanico *Herrg.* 135
 Chaux anhydro-sulfatée *n.* 120 *c*
 Chaux d'antimoine native *Mongez.* 8 *iii*

Chaux arseniatée *n.* 11

Chaux boracique *Deborn.* 75 *c*
 Chaux boratée concrétionnée *n.* 23 *b*
 Chaux boratée siliceuse *n.* 23 *a*
 Chaux carbonatée bituminifère *n.* 25 *k*

Chaux carbonatée compacte *n.* 25 *h*

Chaux carbonatée calp *Brong.* 25 *m ii*

Chaux carb. concrétionnée *n.* 25 *b*

Chaux carb. coralloïde *n.* 10 *b*

Chaux carb. crayeuse *n.* 25 *f*

Chaux carb. cristallisée *n.* 25 *a*

Chaux carb. dépressée *Bourn.* 25 *d*

Chaux carb. dure *Bourn.* 10 *a*

Chaux carb. ferrifère *n.* 64 *vi*

Chaux carb. à fibres soyeuses *n.* 25 *c*

Chaux carb. ferro manganésifère *n.* 25 *n*

Chaux carb. fétide *n.* 25 *k i*

Chaux carb. globuliforme *n.* 25 *c*

Chaux carb. glob. testacée *n.* 25 *c i*

CHL

Chaux carb. lente *Brong.* 25 *l ii*

Chaux carbonatée magnésifère cristallisée *n.* 25 *l*

Chaux carb. mag. compacte *n.* 25 *l iii*

Chaux carb. mag. granulaire *n.* 25 *l ii*

Chaux carb. nacréée *n.* 25 *d*

Chaux carb. quartzifère *n.* 25 *m*

Chaux carb. saccharoïde *n.* 25 *g*

Chaux carb. spongieuse *n.* 25 *f*

Chaux de cobalt noire *Delisle.* 37 *ii*

Chaux datholite *Brong.* 23 *a*

Chaux fluatée amorphe *n.* 51 *c*

Chaux fluatée compacte *n.* 51 *b*

Chaux fluatée cristallisée *n.* 51 *a*

Chaux magnésifiée *Deborn.* 25 *l*

Chaux manganésifiée *Deborn.* 25 *n*

Chaux nitratée *n.* 88

Chaux phosphatée cristallisée *n.* 94 *a*

Chaux phos. chrysolite *Brong.* 94 *b*

Chaux phos. terreuse *n.* 94 *c*

Chaux sulfatée compacte *n.* 120 *c*

Chaux sulfatée cristallisée *n.* 120 *a*

Chaux sulfatée calcarifère *n.* 120 *c i*

Chaux sulfatée fibreuse *n.* 120 *b*

Chaux sulfatée niviforme *n.* 120 *d*

Chaux sulfatée *Brong.* 120 *c*

Chert *Kidd.* 50 *a i*

30. CHIASTOLITE. TABLES, LXXIV.

Hollowspar *J.* Macle *n.* c'est à dire Rhombe évidé parallèlement à ses bords. Pierre de croix *Delisle.* Crucite *Méth.* Holespath *w.* Chiasolith *Kars.*

31. CHLORITE. TABLES, LXXIX.

a. CRISTALLISED. Chlorite *J.* Taic chlorite *n.* Chlorit *w.* Schisto chloritico *Nap.* Chlorite slate *Thoms.* Slaty chlorite *J.* Talc schisteux gris verdâtre *Deborn.* Chlorit schiefer *w.*

b. FOLIATED. Foliated chlorite *J.* Blättricher chlorit *w.*

c. EARTHY. Earthy chlorite *J.* Terre verte *Méth.* Erdiger chlorit *Kars.* Peach of Cornwall *Kidd.*

Chlorite blanche—124 c
 Chlorite zographique H, 57
 Chlorophane—51 a
 Chriolite *Méth.* 2 b
 Chromate of iron J, 64 ix
 Chromate of lead—70 vii

32. CHROMIUM. TABLES, CXL.

Chrome oxydé *Bournon*, from
 Ecouchets in Burgundy.

33. CHRYSOBERIL. TAB. XXXIII.

Chrysoberil J, K, B, Cymophane
 H, *c'est à dire* lumière flottante—
 Krysoberyll w, Chrysopale *Méth.*
 Crisoberillo *Nap.* Beril de oro
Herrg. Chrysolite opalisante
Nonnul, Oriental chrysolite of
 the lapidaries.

Chrysocolle *Brong.* 38 vii.

Chrysocolle bleue *Bucquet*, 38 vi.

Chrysopal *Méth.* 33

Chrysolite J, 93 a

Chrysolite opalisante *Non.* 33

Chrysoprase J, B. 24 f

Chrysoprasium K, 24 f

34. CHUSITE. TABLES, XCH.

Chusite *Saussure*, a mineral found
 in the cavities of porphyry
 near Limbourg, and supposed
 by Brard to be decomposed
 Olivin.

Cimolithe B, 53 a

Cinnabar J, 80 iii.

Cinnabar black friable J, 80 iii. c

Cinnabre B, 80 iii.

Cinnabrio *Herrg.* 80 iii.

Cinnamite *Poggi*, 55 a ii.

Cinnamon stone J, 55 a ii.

Clay iron stone common J, 64 vi. a

Clay iron stone lenticular J, 64 vi. d

35. CLINKSTONE. TABLES, XXX.

Clinkstone J, K. Pierre sonnante
 B, Klingstein w, Phonolite H,
 Echodolite *Klap.*

36. COAL. TABLES, CXV.

HOUILLE, CHARBON DE TERRE *Fr.*
 KOHLE *Ger.* ANTHRACE *Ital.* JUL-
 LA *Span.* ANTHRAX OF CARBO *Lat.*

a. COMPACT. Jet K, Jayet H, Lig-
 nite jayet *Brong.* Petrole com-
 pacte *Debourn*, Succin noire—Ga-
 gate *Petr.* Azabache *Span.*

i. Pitch coal J, Pech kohle w,
 Houille piciforme B, Houille
 sèche *Brong.* according to Prof.
 Jameson, Jet is a var. of Pitch
 coal.

ii. Cannel coal J, Kännel
 kohle w, Houille compacte *Brong.*
 Houille de Kilkenny (improper-
 ly) B, Parret coal of Scotland—

b. FOLIATED. Foliated coal and
 slate coal J, Blätter kohle and
 Schiefer kohle w, Houille, ou
 charbon schisteux B, Houille
 grasse *Brong.*

i. Dysodile *Cordier*, Houille
 papyracée H, Terre bitumineuse
 feuilletée *Bomare*, Tourbe pa-
 pyracée *Tondi*, Merda de Diavo-
 la dés Siciliens.

c. BROWN. Brown coal J, Houille
 brune B, Braunkohle w, Gemei-
 ne braun kohle *Reuss.*

i. Fibrous. Bituminous wood
 J. Carbonated wood K, Bitumi-
 nösés holz w, Bois bitumineux
 B, Ligno bituminoso *Petr.* Su-
 turbrand of Iceland—Bovey
 coal—

ii. Columnar. Columnar coal
 J, Stängen kohle w, Houille ba-
 cillaire H, Houille scapiforme B.

iii. Friable. Moor coal J,
 Houille limoneuse *Broch.* Moor
 kohle w, Lignite friable *Brong.*

iv. Earthy. Earth coal J, Ligi-
 nite terreux *Brong.* Erd kohle
 w, Bituminöse holzerde—Terre
 de cologne—

Coalblend—7 a

37. COBALT. TABLES, CXXIX.

KOBALT *Ger.* COBALTO *Ital.*

- i. ARSENICAL. White cobalt ore *J*, Cobalt arsenical *n*, Cobalt blanc *B*, Weisser speiskobalt *w*, Cobalto blanco *Herrg.*

a. Grey cobalt ore *J*, Dull grey cobalt ore *K*, Cobalt gris noirâtre *n*, Cobalt arsenical ferrifère *Tondi*, Grauer speiskobalt *w*.

b. Cobalt glance *J*, Bright white cobalt ore *K*, Cobalt gris *n*, Cobalt éclatant *B*, Cobalt arsenical *Daub.* Kobalt glanz *Kars.*

- ii. OXIDE. Black and brown cobalt ochre *J*, Cobalt oxydé noir *n*, Cobalt terreux *B*, Chaux de cobalt noire *Delisle*, Erd kobalt *Kars.*—Earthy var. Kobalt mulm *w*.

- iii. ARSENIATE. Cobalt bloom *J*, Cobalt Arseniaté *n*, Rother erd kobalt *w*, Kobalt blüthe *Kars.* Fleurs de cobalt *B*, Oxyde de cobalt rouge *Deborn.*

a. Cobalt arseniaté argentifère *n*, Argent merde d'œie *B*, Gänseküthiges silber *Reuss.*

Cobalt arseniaté *n*, 37 iii.

Cobalt ar. argentifère *n*, 37 iii. *a.*

Cobalt arsenical *n*, 37 i.

Cobalt arsenical *Daub.* 37 i. *b*

Cobalt arsenical ferrifère *Tondi*, 37 i. *a*

Cobalt blanc *B*, 37 i.

Cobalt bloom *J*, 37 iii.

Cobalt éclatant *B*, 37 i. *b*

Cobalt glance *J*, 37 i. *b*

Cobalt gris *n*, 37 i. *b*

Cobalt gris noirâtre *n*, 37 i. *a*

Cobalt oxydé noir *n*, 37 ii.

Cobalt sulfaté *Brong.* 122 i.

Cobalt terreux *B*, 37 ii.

Cobaltic manganese—66 i. *d*

Cobalto blanco *Herrg.* 37 i.

Coccolit *Andrada*, 14 *b*

Cobre—38

Cobre nativo *Herrg.* 38 i.

Cobre vidrioso *Herrg.* 38 ii.

Colophonit *Reuss.* 55 *c*

Columbite *J*, 125

Columbium *Hatchet*, 125

Columb eisen *Reuss.* 125

Columnar coal *J*, 36 *c* ii.

Columnar clay iron stone *J*, 64 *v. d*

Columnar heavy spar—16 *a* i.

Columnar spar *K*, 16 *a* i.

Common argillaceous iron ore *K*, 64 *vi. a*

Common asbest *J*, 13 *b*

Common calcedony *J*, *K*, 24 *a*

Common clay iron stone *J*, 64 *vi. a*

Common dolomite—25 *l* ii.

Common feldspar *K*, 48 *a*

Common garnet *J*, 55 *b*

Common opal *J*, 91 *c*

Common salt—85 ii.

Common serpentine—106 *b*.

Common schorl *J*, 130 *a*

Common spar *K*, 25 *a*

Common tinstone *J*, 127 i.

Common tourmaline—130 *a*

Compact clay ironstone—64 *v. k*

Compact carbonate of lead—70 *iv. b*

Compact coal—36 *a*

Compact felspar *J*, 48 *f*

Compact fluor *J*, 51 *b*

Compact galena *K*, 70 ii. *a*

Compact gypsum *J*, 120 *b*

Compact lead glance *J*, 70 ii. *a*

Compact limestone *J*, *K*, 25 *h*

Compact mineral pitch *J*, 20 *d*

Conchoidal glance coal *J*, 7 *c*

Conite *Reuss.* 25 *m* i.

Continuous feldspar *K*, 48 *f*

38. COPPER. TABLES, CXXIV.

CUPRUM *Lat.* COUIRE *Fr.* KUPFER

Ger. RAME *Ital.* COBRE *Span.*

- i. NATIVE. Native copper *J*, *K*, Cuivre natif *n*, *B*, Gediegen kupfer *w*, Rame nativo *Petr.* Cobre nativo *Herrg.* Venus of the alchemists *Brong.*

COP

- ii. BLACK SULPHURET. Copper glance J, Vitreous ore K, Cuivre sulfuré H, Kupferglass W, Kupferglanz Kars. Cobre vidrioso Herrg. Cuivre vitreux B.
 a. Copper black J, Black copper ore K, Cuivre noir B, Kupfer schwarz W.
 b. Cuivre gris spiciforme H, Argent en épis—Koernerkreuz der mineurs Hessois Lucas.
 iii. YELLOW SULPHURET. Copper pyrites J, Yellow copper ore K, Cuivre pyriteux H, Pyrite cuivreuse B, Mine de cuivre jaune Deborn, Kupferkies W, Pirite gialla Petr.
 a. Variegated copper ore J, Purple copper ore K, Cuivre pyriteux hepatic H, Cuivre p. panaché Brong. Cuivre sul. violet Deborn, Buntkupfererz W.
 iv. GREY SULPHURET. Fahlore J, Grey copper ore K, Cuivre gris H, B, Mine de cuivre antimonial Deborn, Mine d'argent grise Mongez, Fahlerz W.
 a. Cuivre gris platinifère Lucas, a var. of the grey sulphuret of copper from Guadalcanal in Estramadura, occasionally containing 1-10th of Platina.
 v. OXIDE. Red copper ore J, Florid red copper ore K, Cuivre oxydulé H, Cuivre oxydé rouge B, Mine de cuivre vitreuse rouge Delisle.
 a. Capillary. Cuivre oxydulé capillaire H, Haarformiges roth kupfererz W, Kupfer blüthe Wid.
 b. Earthy. Tile ore J, Brick red copper ore K, cuivre oxydulé terreux H, Cuivre oxydulé ferrière Brong. Ziegelerz W.
 vi. BLUE CARBONATE. Copper azure J, Blue calciforme copper ore K, Cuivre carb. bleu H, Azure de cuivre B, Fleurs de cuivre bleues

COP

- Delisle, Chrysocolle bleue Bucquet, Azul de cobre Herrg. Kupfer lazur W.
 a. Earthy. Bleu de montagne B, Erdige kupferlazur W, Azuro di montagna Petr. Arménite Méth.
 vii. GREEN CARBONATE. Malachite J, K, B, Cuivre carbonaté vert H, Fleurs de cuivre vertes Delisle, Malachit W.
 a. Earthy. Mountain green J, Copper green K, Cuivre carb. vert pulverulent H, Vert de montagne Delisle, Chrysocolle Brong. Verde de cobre Herrg. Kupfergrün W.
 b. Copper emerald J, Diopase H, c'est à dire visible au travers. Cuivre diopase B, Emeraude de Sibirie Ferba, Emeraudine Méth. Kupfersmaragd W, Cristalliserter Kupfergrün Estner, Achirite Sewerin.
 viii. MURIATE. Copper sand J, Cuivre muriaté H, Salzsaures kupfer W, Salzkupfer Kars. Atacamite—Greensand of Peru K.
 ix. PHOSPHATE. Phosphate of copper J, Cuivre phosphaté H, Cuivre phosphoré Méth. Phosphor kupfererz W.
 x. ARSENIATE. Cuivre arseniaté H, Cuivre arsenical B.
 1. Sp. Lenticular Bournon, Linsenerz W.
 2. Lamellar Bournon, Kupferglimmer W, Copper mica J, Cuivre arseniaté lamelliforme B.
 3. Acicular Bournon, Olivenerz W, Olive copper ore K, Olivin ore J.
 a. Earthy. Cuivre arseniaté terreux jaune verdâtre H, Pharmacochozait Leon.
 Copparosa turchina Petr. 122 g
 Copper azure J, 38 vi.
 Copper black J, 38 ii. a

Copper emerald *J*, 38 vii. *b*
 Copper glance *J*, 38 ii.
 Copper green *K*, 38 vii. *a*
 Copper mica *J*, 38 x.
 Copper nickel *J*, 87 ii.
 Copper pyrites *J*, 38 iii.
 Copper sand *J*, 38 viii.
 Cordierite *Lucas*, 62
 Corindon adamantin *Brong.* 39 *b*
 Corindon granulaire *n*, 39 *c*
 Corindon harmophane *n*, 39 *b*
 Corindon har. opaque *n*, 39 *b* i.
 Corindon hyalin *n*, 39 *a*
 Corindon télésie *Brong.* 39 *a*
 Corindon zincifère *Hisinger*, 112 *b*
 Cornaline *B*, 24 *c*
 Corneous mercurial ore *K*, 80 iv.
 Corneous silver ore *K*, 108 vi.
 Corund *J*, 39 *b*

39. CORUNDUM. TABLES, XXXII.

a. PERFECT. Sapphire *J*, Oriental ruby, sapphire, and topaz *K*, Corindon hyalin formerly Télésie, *c'est à dire* corps parfait *n*, Corindon télésie *Brong.* Asteria of the ancients *Kidd*, Saphir *w*, Malabar name Sappira. Colorless var. *Lux* saphir—

b. IMPERFECT. Corund *J*, Adamantine spar *K*, Corindon harmophane, formerly Corindon *n*, Spath adamantin *B*, Spato adamantino *Nap.* Gemeiner korund *w*, Corindon adamantin *Brong.*

i. *Brown* var. from China, Diamond spar *J*, Corindon harmophane opaque *n*, Demant spath *w*.

c. GRANULAR. Emery *J*, *K*, Corindon granulaire formerly Fer oxydé quartzifère *n*, Smeriglio *Petr.* Schmirgel *w*, Emeril *B*.

Cornish tin ore *J*, 127 i. *a*

Cos *Méth.* 138

Cotricula *Wall.* 138

Couperose vert *Delisle*, 122 *f*

Craie *B*, 25 *f*

Craie de Briançon—124 *a*

Craie d'Espagne *Delisle*, 117

Craitonite *Bournon*, 141

Crayon rouge *B*, 64 v. *b*

Creta cimolia—53

Creta coherens solida *Wall.* 25 *j*

Creta farinacea spongiosa *Wall.* 25 *f* i.

Crisoberillo *Nap.* 33

Crisolito *Nap.* 94 *b*

Crisolito nobile *Nap.* 93 *a*

Crisolito commune *Nap.* 93 *b*

Crisolito de vulcani *Pétr.* 135

Crispite *Méth.* 128 i. *b*

Cristal de Roche *B*, 103 *a*

Crocalite *Est.* 81 *b*

Croisette *Daub.* 116

Cross stone *J*, 59

Crusite *Méth.* 30

Cryolite *J*, 2 *b*

Crysolithe du cap *Sage*, 102

Cube ore *J*, 64 viii. *a*

Cube spar *J*, 120 *e*

Cubic zeolite *J*, 5 *a*—*n*, 29

Cuivre—38

Cuivre arseniaté *n*, 38 *x*.

Cuivre ars. ferrifère *B*, 64 viii.

Cuivre ars. lamelliforme *B*, 38 *x*.

Cuivre ars. terreux jaune verdâtre *n*, 38 *x. a*

Cuivre arsenical *B*, 38 *x*.

Cuivre carbonaté bleu *n*, 38 vi.

Cuivre carb. vert *n*, 38 vii.

Cuivre carb. vert pulverulent *n*, 38 vii. *a*

Cuivre corné *Deborn*, 134 i.

Cuivre diopase *Brong.* 38 vii. *b*

Cuivre gris *n*, *B*, 38 iv.

Cuivre gris platinifère *Lucas*, 38 iv. *a*

Cuivre gris spiciforme *n*, 38 ii. *b*

Cuivre muriaté *B*, 38 viii.

Cuivre natif *n*, *B*, 38 i.

Cuivre noir *B*, 38 ii. *a*

Cuivre oxydé rouge *B*, 38 v.

Cuivre oxydulé *n*, 38 v.

Cuivre ox. capillaire *n*, 38 v. *a*

Cuivre ox. terreux *n*, 38 v. *b*

Cuivre ox. ferrifère *Brong.* 38 v. *b*

Cuivre phosphaté *n*, 38 ix.

Cuivre phosphoré *Méth.* 38 ix.

Cuivre pyriteux *n*, 38 iii.
 Cuivre pyriteux hépatique *n*, 38
 iii. *a*
 Cuivre pyr. panaché *Brong.* 38 iii. *a*
 Cuivre sulfaté *n*, 122 *g*
 Cuivre sulfuré *n*, 38 ii.
 Cuivre sul. violet *Deborn*, 38 iii. *a*
 Cuivre vitreux *n*, 38 ii.
 Cupreous antimonial sulphuret of
 lead—70 ii. *e*
 Cupreous arseniate of iron *Bour-*
non, 64 viii.
 Cuprum—38
 Cyanite *j*, *b*, 105
 Cymophane *n*, 33

DAOURITE *Méth.* 130 *d*
 Dapêche *Lucas*, 20 *c*
 Datholite *Esmark*, 23 *a*
 Decomposed flint—50 *b*
 Delphinite *Saus.* 46 *a*
 Demant *w*, 42
 Demant spath—39 *b* i.
 Dëodalite *Rose*, 97

40. DESMINE. TABLES, XCIII.

A name given by *Nose* to a substance crystallised in small silky tufts, accompanying Spinellane in the lavas of the extinct volcanoes of the Rhine.

41. DIALLAGE. TABLES, LVI.

- a. Green var.* Diallage verte *n*, Granular actinolite *j*, Feldspath vert *Delisle*, Emeraldite *Daub.* Lotalalite *Sewergerin*, Körniger strahlstein *w*, Smaragdit *Kars.*
b. Metallic var. Schiller stone *j*, Diallage metalloïde *n*, Spath chatoyant *n*, Miroitante *Méth.* Diallage chatoyante *Brong.* Schillerstein *w*, Bronzit *Kars.* Labradorische hornblende *Emm.*

Haily has given the name of Euphotide to the shining green Lamellar Diallage contained in the compact felspar of Corsica,

known as the Verde di Corsica Duro in Italy—

Diallage chatoyante *Brong.* 41 *b*
 Diallage metalloïde *n*, 41 *b*
 Diallage verte *n*, 41 *a*

42. DIAMOND. TABLES, CX.

Diamond *j*, *k*, Diamant *n*, *b*,
 Demant *w*, Carbon pur *Tondi*,
 Malabar name Virum—
 Diamond spar *j*, 39 *b* i.
 Dichroïte *Cord.* 63—*Bourn.* 103 *c*
 Diaspore *n*, 136
 Diaspero *Petr.* 61
 Dichter fluss *w*, 51 *b*
 Dick faseriger amethyst *w*, 103 *m*
 Diopside *Brong.* 104
 Dioptase *n*, 38 vii. *b*
 Diorite *n*, 58

43. DIPYRE. TABLES, LXXIII.

Dipyre *c'est à dire* Doublement susceptible de l'action du feu *n*, Schmelzstein *w*, *j*, Dipyr *Kars.* Leucolith de Mauléon *Méth.*

Disthène *n*, 105
 Dolomite *w* 25 *l* ii.
 Dolomite kristalliserter *Kars.* 25 *t*
 Doppelspath—25 *a*
 Dragée de Tivoli—25 *c* i.

44. DRAWING SLATE. LXXXVIII.

Drawing slate *j*, Black chalk *k*, Argile schisteuse graphique *n*, Schiste à dessiner *b*, Ampelite graphique *Brong.* Zeichenschiefer *w*, Nigrica *Wall.* Carpenters chalk—Melantherite *Méth.*

Dull grey cobalt ore *k*, 37 *i*. *a*
 Dysodile *Cordier*, 36 *b* i.

EARTH COAL *j*, 36 *c* iv.
 Earthy carb. of lime—25 *f*
 Earthy green carb. of copper—38 vii
 Earthy blue carb. of copper—38 vi
 Earthy chlorite *j*, 31 *c*
 Earthy fluor *j*, 51 *c*

Earthy gyps—120 *d*
 Earthy marle κ , 25 *i*.
 Earthy phosphate of lime—94 *c*
 Earthy talc \jmath , 124 *e*
 Echodolite *Klap.* 35
 Ecume de mer—75 *b* *i*.
 Ecume de terre—25 *d* *ii*.
 Edelite \mathfrak{B} , 81 *b*
 Edler arsenik kies *Kars.* 12 *iv*.
 Edler beril \mathfrak{w} , 45 *b*
 Edler granat \mathfrak{w} , 55 *a*
 Edler opal \mathfrak{w} , 91 *a*
 Edler serpentin \mathfrak{w} , 106
 Egyptian jasper \jmath , 50 *c*
 Egyptian pebble κ , 50 *c*
 Eisen—64
 Eisen gediegen \mathfrak{w} , 64 *i*.
 Eisenblende—134 *ii*.
 Eisenblüthe—10 *b*
 Eisenchrome *Kars.* 64 *ix*.
 Eisenerde blaue \mathfrak{w} , 64 *vii. a*
 Eisenglanz \mathfrak{w} , 64 *iii*.
 Eisenglimmer \mathfrak{w} , 64 *iii. a*
 Eisenkiesel \mathfrak{w} , 103 *h*
 Eisenkolumb *Kars.* 125
 Eisenokker \mathfrak{w} , 64 *v. c*
 Eisenpecherz 64 *vii. c*
 Eisenrham roxo *Herrg.* 64 *v. c*
 Eisenrham rouge \mathfrak{B} , 64 *v. c*
 Eisensand \mathfrak{w} , 64 *ii. a*
 Eisenschwärze *Reuss.* 64 *v. h*
 Eisenstein magnet \mathfrak{w} , 64 *ii*.
 Eisenstein rasen \mathfrak{w} , 64 *vii. b*
 Eisenstein spath \mathfrak{w} , 64 *vi*.
 Eisenvitriol *Kars.* 122 *f*
 Eispath \mathfrak{w} , 111
 Elaeolith *Kars.* 137 *d*
 Elastic mineral pitch \jmath , 20 *c*
 Elastic quartz \mathfrak{B} , 103 *i* *ii*.
 Elastic sandstone—103 *i* *ii*.
 Electric schorl—130 *b*
 Electrum *Klap.* 56

45. EMERALD. TABLES, XXXVI.

a. Emerald \jmath , κ , Emeraude *c'est à dire* corps Brillant \mathfrak{B} , Schmaragd \mathfrak{w} , Glatte smaragd *Kars.* Sma-

ragdus *Wall.* Smeraldo *Nap.* Beril Emeraude *Brong.*
b. Beril. Precious beryll \jmath , Emeraude limpide, verte bleuâtre, jaune verdâtre \mathfrak{B} , Edler beril \mathfrak{w} , Gestrieffter smaragd *Kars.* Beril aigmarine *Brong.* Beril noble \mathfrak{B} , Berillo *Nap.* Aquamarine—
 Emerald of Brasil—130 *b*
 Emeraude \mathfrak{B} , 45 *a*
 Emeraude du cap *Rochon*, 102
 Emeraude de Sibirie *Ferber*, 38 *vii. b*
 Emeraude limpide, vert bleuâtre, &c. \mathfrak{B} , 45 *b*
 Emeraudine *Méth.* 38 *vii. b*
 Emeraudite *Daub.* 41 *a*
 Emeril \mathfrak{B} , 39 *c*
 Emery \jmath , κ , 39 *c*
 Endéliou *Bourn.* 70 *ii. c*

46. EPIDOTE. TABLES, LV.

a. CRISTALLISED. Pistazit \jmath , \mathfrak{w} , Glas-sy actinolite κ , Rayonnante vitreuse \mathfrak{B} , Épidote \mathfrak{B} , *c'est à dire* qui a reçu un accroissement. Delphinite *Saus.* Stralite vitriosa *Nap.* Thallit *Kars.* Akanticoné *Andrada*, Arendalit *Reuss.* Grey shining var. Zoisit \mathfrak{w} .
b. GRANULAR. Epidote arenacé \mathfrak{B} , Skorza *Lúcas.*

Epsom salt κ , 122 *c*
 Epsomite *Méth.* 122 *c*
 Erbsenstein \mathfrak{w} , 25 *c* *i*.
 Ercinite *Nap.* 59
 Erdiger chlorite *Kars.* 31 *c*
 Erdiger fluss *Kars.* 51 *c*
 Erdiger phosphorit *Kars.* 94 *c*
 Erd kobolt *Kars.* 37 *ii*.
 Erd kobolt rother \mathfrak{w} , 37 *iii*
 Erd kohle \mathfrak{w} , 36 *c* *4*
 Erdöl \mathfrak{w} , 20 *a*
 Erdpech elastisches \mathfrak{w} , 20 *c*
 Erdpech schlackiges \mathfrak{w} , 20 *d*
 Erdpech zähes *Kars.* 20 *b*
 Espato de Bohemia *Herrg.* 16 *a* *iii*.
 Espuma de manganese *Herrg.* 76 *i. a*

Estaño—127
 Estaño vidrioso *Herrg.* 127 i.
 Esteatita *Herrg.* 117
 Etain—127
 Etain limoneux *Deborn*, 127 i. a
 Etain oxydé n, 127 i.
 Etain oxydé concretionné n, 127 i. a
 Etain ox. au maximum *Méth.* 127 i.
 Etain pyriteux n, 127 ii.
 Etain sulfuré n, 127 ii.
 Etain stalactite *Delisle*, 127 i. a
 Etain vitreux cristallisé *Deb.* 127 i.
 Ethiops mineral natif n, 80 iii. c
 Ethiops martial natif *Deborn*, 64 v. i
 Euphotide n, 41 b

47. EUCLASE. TABLES, XXXVII.

Euclase *c'est à dire* Facile à briser n, Euklas w. Of this mineral, which is about the rarest we are acquainted with, and is found only in Peru and Brasil, there is a splendid collection in the cabinet of Mr Rundell.

FAHLERZ w, 38 iv.
 Fahlore j, 38 iv.
 Fahlnite *Kars.* 112 b
 False amethyste—51 a
 False diamond—141
 False saphire—103 c
 Farinaceous gypsum n, 120 d
 Farinaceous zeolite—81 a
 Farine fossile *Mongez*, 120 d
 Farine fossile de Fabroni *Méth.* 101 d
 Farine volcanique *Méth.* 101 d
 Faser quartz *Kars.* 103 m
 Faser zeolith w, *Kars.* 81
 Fassait *Lenz*, 118
 Faux lapis *Stutz*, 69 a
 Feather antimony j, 8 ii. a
 Federerz w, 8 ii. a
 Federsalz *Kars.* 122 d i.
 Feldspato commune *Nap.* 48 a
 Feldspath n, 48 a
 Feldspath apyre *appen.* n, 6
 Feldspath bleu *appen.* n, 48 c

Feldspath bleu céleste *Deborn*, 48 e
 Feldspath comp. céroïde n, 48 f
 Feldspath cubique w, 48 a i.
 Feldspath décomposé n, 48 h
 Feldspath du Forez *Guyton*, 6
 Feldspath *gemeiner* w, 48 a
 Feldspath laminaire—48 a ii.
 Feldspath *muschliger Link.* 129
 Feldspath nacré n, 48 b
 Feldspath opalin n, 48 c
 Feldspath *opalisirender Kars.* 48 b
 Feldspath tenace n, 48 g
 Feldspath vert n, 48 d
 Feldspath vert *Delisle*, 41 a
 Felsite n, 48 e
 Feldstein *blättriger Estner*, 48 a
 Feldstein *dichter Estner*, 48 f

48. FELSPAR. TABLES, XLII.

a. COMMON. Fresh feldspar j, Common feldspar n, Feldspath ou Orthose, (the latter) tirer d'un mot Grec qui signifie droit n, Spath fusible d'*Arcet*, Spath étincillant *Daub.* Feldspath commun n, Gemeiner feldspath w, Feldspato commune *Nap.* Blättriger feldstein *Estner*, Petalite *Andrada*.

i. Würflicher feldspath w, Feldspath cubique n, Petrilite n, var. of common feldspar.

ii. Feldspath laminaire—Petunzé of the Chinese, the Sanidin of *Nosc* is a var. of felspar disseminated in the argillaceous porphyry of Drechenfels.

The Indianite of *Bournon*, although containing an unusual proportion of alumine according to the analyses of *Chenevix*, is probably a var. of felspar.

b. RESPLENDENT. Adularia j, Moonstone n, Feldspath nacré n, Adulaire n, Felspath adulaire *Brong.* Adular w, Opalisirender feldspath *Kars.*

c. OPALESCENT. Labradorite stone j,

- κ, Feldspath opalin η, Pierre de Labrador β, Labradorite *Méth.*
- d. GREEN. Feldspath vert η, Patrin states that this stone has been improperly called Pierre d'Amazone by *Deborn*, &c.—vulg. Amazon stone.
- e. BLUE. Azurite γ, Feldspath bleu η, *appen.* var. of Dichter Feldspath w, Splittiger lazulite *Kars.* Feldspath bleu céleste *Deborn*, var. du Tyrolite *Méth.* Felsite κ. Siderite *Moll*, Mollite—Quartz résinite bleu grisâtre *Lucas*. In conformity with Klaproth, this substance is placed under Felspar, although there is a great disparity of opinion respecting it; *Lucas* describes it as a variety of opal; in the *Journal des Mines*, it is mentioned as a variety of Quartz; and *Tromsdorff* who analysed it, observed that its composition approaches nearer to that of Spinel than any other mineral. By reference to its analysis, it certainly does not appear properly placed under Felspar.
- f. COMPACT. Compact feldspar γ, Continuous feldspar κ, Dichter feldstein *Estner*, Feldspath compacte céroïde η, Petrosilex *Mongez*, Paläiopetre *Saus*. Petroselce commune *Petr.* Splittiger hornstein—Hellefinta of the Swedes, Gabbroinite *Schumacher*.
- g. TOUGH. Feldspath tenace η, Jade *Saus*. Hornstone γ, Pierre à corne β, Silex corné *Brong.* Sausaurit *Kars.* Lehmanite *Méth.* Magnélite *Hopfner*.
- i. Jade néphritique η, *appen.* Jade κ, Nephrit *Kars.* Giada *Petr.* Pierre néphritique—Pierre des reïns—Pierre des Amazons—Takourave—
- ii. Jade ascien η, *appen.*—Axe stone γ, Pierre de hache β, Beilstein *Em.* Punamu nephrite

- Reuss.* Igida, Indian name, Cé-raunite—
- h. DECOMPOSED. Feldspath décomposé η, Porcelaine clay γ, Kaolin κ, Porzallenerde—
- Felspath adulaire *Brong.* 48 b
- Fer—64
- Fer argilleux grenu ou lenticulaire β, 64 v. m
- Fer arg. jaspé β, 64 v. k
- Fer arg. scapiforme β, 64 v. d
- Fer arsenié β, 64 viii.
- Fer arsenical η, 12 iv.
- Fer arsenical argentifère 12 iv.
- Fer azuré *Méth.* 64 vii. a
- Fer az. pulverulente η, 64 vii. a
- Fer carburé η, 99
- Fer chromaté η, β, 64 ix.
- Fer chromé *Laugier*, 64 ix.
- Fer de Framont *Méth.* 64 iii.
- Fer de l'Isle d'Elbe *Méth.* 64 iii.
- Fer hépatique *Deborn*, 64 iv. a
- Fer magnétique β, 64 ii.
- Fer mag. sablonneux β, 64 ii. a
- Fer malléable natif *Delisle*, 64 i.
- Fer météorique—82
- Fer micacé β, 64 iii. a
- Fer micacé rouge *Daub.* 64 v. c
- Fer muriaté *Lucas*, 64 x.
- Fer natif η, β, 64 i.
- Fer natif météorique η, 82
- Fer noir *Deborn*, 64 v. i.
- Fer oligiste η, 64 iii.
- Fer ol. argillifère compacte rouge η, 64 v. b
- Fer ol. bacillaire conjoint η, 64 v. d
- Fer ol. concretionné η, 64 v.
- Fer ol. écaillé β, 64 iii. a
- Fer ol. luisant η, 64 v. c
- Fer ol. terreux η, 64 v. c
- Fer oxydé argillifère massif η, 64 vi. a
- Fer ox. carbonaté η, 64 vi.
- Fer ox. brun fibreux *Brong.* 64 v. f
- Fer ox. brun granuleux *Bron.* 64 v. l
- Fer ox. brun ocreux *Brong.* 64 v. g
- Fer ox. globuliform η, 64 v. l
- Fer ox. graphique η, 64 v. b
- Fer ox. hématite η, 64 v. f

FER

Fer ox. de laes *Lucas*, 64 vii. *b*
 Fer ox. au minimum *Méth.* 64 v. i.
 Fer ox. quarzifère *n*, 39 *c*
 Fer ox. resinite *Lucas*, 64 vii. *c*
 Fer oxydulé *n*, 64 ii.
 Fer ox. fuligineux *n*, 64 v. i
 Fer ox. titanifère *n*, 64 ii. *a*
 Fer phosphaté *n*, 64 vii.—*n*, 76 iv.
 Fer phos. azuré *Brong.* 64 vii. *a*
 Fer phos. laminaire *Brong.* 64 vii.
 Fer phos. au maximum *Méth.* 64 vii.
 Fer phos. terreux—64 vii. *a*
 Fer spathique *Méth.* 64 vi.
 Fer spéculaire *n*, 64 iii.
 Fer sublimé des volcans *Fauj.* 64 iii.
 Fer sulfaté *n*, 122 *f*
 Fer sulfuré *n*, 64 iv.
 Fer sul. au maximum *Méth.* 64 iv.
 Fer terreux bleu *n*, 64 vii. *a*
 Fer titané *Cordier*, 64 ii. *a*
 Fer volcanique *Méth.* 64 iii.
 Ferralceites *Kirr.* 64 vi.
 Ferruginous wolfram—139 i.
 Ferro-manganesian carbonate of lime—25 *n*
 Fettstein—137 *d*
 Feuerstein—50
 Ferro aerato *Petr.* 64 vi.
 Ferro nativo *Petr.* 64 i.
 Ferrum—64
 Fester uran ocher *w*, 134 i. *a*

49. FIBROLITE. TABLES, XCIV.

Fibrolite *Bournon*, *n*, Fibrolit *Kars.* Bournonite *Lucas*; a substance which accompanies Corundum, and is usually of a fibrous texture.

Fibrous gypsum *J*, *K*, 120 *b*
 Fibrous limestone *J*, 25 *c*
 Fibrous quartz *K*, 103 *m*
 Fibrous zeolite *J*, 81
 Figure stone *J*, 117 *b*
 Fiorite *Thomson*, 91 *f* i.
 Fish eyestone *J*, 9
 Fischaugenstein *w*, 9
 Fixed air—26 *a*

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Fleurs de cinnabre *Delisle*, 80 iii. *a*
 Fleurs de cobalt *n*, 37 iii.
 Fleurs de cuivre bleues *Delisle*, 38 vi.
 Fleurs de cuivre vertes *Delisle*, 38 vii.
 Fleurs de manganèse—76 i. *a*

50. FLINT. TABLES, XXI.

a. COMPACT. Flint *J*, *K*, Quarz-agathe pyromaque *n*, Feurstein *w*, Pierre à fusil *n*, Silex *Petr.* Pederal *Herrg.*
 i. Chert *Kidd*—Petrosilex of some authors.
b. DECOMPOSED. Quarz nectique *n*, Schwimmstein *Kars.* Levi silex *Méth.* Schwimmkiesel *Haus.*
c. BROWN. Egyptian jasper *J*, Egyptian pebble *K*, Jaspe Egyptien *n*, Calcedoine silex *Bournon*, Selce d'Egitto *Nap.* Quarz agathe onyx opaque *n*.

Flint slate *J*, 103 i.
 Flokkenerz *Kars.* 70 vi.
 Florid red copper ore *K*, 38 v.
 Floss ferri—10 *b*
 Floss niccoli *Wall.* 87 iii.

51. FLUATE OF LIME. TAB. IX.

a. CRISTALLISED. Fluor spar *J*, *K*, Chaux fluatée cristallisée *n*, Spath fluor *n*, Fluss spath *w*, Fluorite *Nap.* Spath fusible *Delisle*,—the phosphorescent var. Chlorophane—also according to colour, False Amethyste, Emerald, Ruby, and Topaz.

b. COMPACT. Compact fluor *J*, Ch. fluatée compatto *n*, Dichter fluss *w*, Fluorite compatto *Nap.*

c. EARTHY. Earthy fluor *J*, Chaux fluatée amorphe *n*, Erdiger fluss *Kars.* Fluss erd *w*.

Fluor spar *J*, *K*, 51 *c*
 Fluss spath *w*, 51 *a*
 Fluorite *Nap.* 51 *a*

Fluorite compacto *Nap.* 51 *b*
 Fluss erd—51 *e*
 Foliated carbonate of lime—25 *d*
 Foliated chlorite *J.*, 31 *b*
 Foliated coal *J.*, 36 *b*
 Foliated prehnite *J.*, 102
 Foliated zeolite *J.*, 118
 Fortification agate—24 *d*
 Fossil oil *J.*, 20
 Fossile vert *Leonhard*, 103 *l*
 Frauncis w, 120 *a*
 French chalk—124 *a*
 Fresh feldspar *J.*, 48 *a*

52. FREISLEBEN. TABLES, XCV.

A mineral so named by Moll after the mineralogist who first described it; its colour is greyish blue, or blue, it is fragile, scratches calcareous spar with difficulty, fracture, lamellated; lustre, shining; soft to the touch, and insoluble in water, *Lucas*.

53. FULLERS EARTH. LXXXIV.

Fullers earth *J.*, Argile smectique *H.*, Terre à Foulon *B.*, Walkererde *w*, Creta cimolia of Pliny *Kidd*.

a. Cimolithe *B.*, Argile cimolith *Brong.*

Fuscite *Schumacher*, 96

Gabbro *Desmarest*, 4 *a*

Gabbroinite *Schumacher*, 48 *f*

54. GADOLINITE. TABLES, LII.

Gadolinite *J.*, *H.*, Gadolinit *w*, Ytterbite—Zeolite noire *Geyer*. Klaproth has discovered the Kohle blend of Bornholm to be Gadolinite.

Gagate *Petr.* 36 *a*

Gadolinite—112 *b*

Galena *K.*, 70 *ii*.

Galena antimonial *Petr.* 8 *ii*.

Galène *B.*, 70 *ii*.

Galène antimonial *Méth.* 70 *ii. c*

Galène de bismuth *B.*, 19 *ii*.

Galène compacte *Deborn*, 70 *ii. a*

Galène spéculaire *Deborn*, 70 *ii. b*

Gänseköthiges silber *Reuss*. 37 *iii. a*

Gallizinite—128 *i. c*

Galmei *w*, 140 *i*.

Ganil *K.*, 25 *g*

55. GARNET. TABLES, XXXVIII.

a. PRECIOUS. Precious garnet *J.*, Grenat *H.*, *B.*, Edler granat *w*, Almandin *Kars.* Carbunculus of Pliny *Kidd*, Syrian garnet of the lapidary, Yellow var. Succinite and Topazolite *Bonvoisin*.

i. Pyrope *J.*, *w*, Grenat granuliforme *H.*, Grenat pyrop *Brong.* Karfunckel *Reuss*. Oriental garnet of the lapidary—

ii. Cinnamon stone *J.*, Kaneelstein *w*, Cinnamite *Poggi*.

b. COMMON. Common garnet *J.*, Grenat brun, rougeâtre, ou verdâtre *H.*, Grenat ordinaire—Gemeiner granat *w*.

c. BLACK. Melanite *J.*, *B.*, *w*, Grenat noir de Frescati—Schlackiger granat *Kars.* Grenat émarginé noir *H.*,—the Black garnet of the Pyrenees, Pyrenait *w*.

d. OLIVE GREEN. Grossularia *w*, Grenat vert olive *H.*, Olyntholith *Fisch*.

i. Aplome *appen.* *a.* Häüy considers this a distinct mineral.

ii. Allochroite *Andrada*, Splittriger granat *Kars.* Green amorphous garnet—

e. GRANULAR. Grenat resiniten, Pech granat *Kars.* Colophonit *Reuss*.

f. MANGANESE. Grenat manganésé *Brong.* Manganèse granatiforme *B.*, Braunstein kiesel *Reuss.* placed by some among the ores of Manganese—

Géanthrace *Tondi*, 7 *a*

Gediegen platin *w*, 98

Gediegen sylvan w, 126 i.
 Gediegen tellur *Reuss*. 126 i.
 Gemeine braun kohle *Reuss*. 36 c
 Gemeiner anthracite *Kars*. 7 b
 Gemeiner asbeste w, 13 b
 Gemeiner corund w, 39 b
 Gemeiner kalzedon w, 24 a
 Gemeiner opal w, 91 c
 Gemeiner quarz w, 103 n
 Gemeiner schorl w, 130 b
 Gemeiner talk w, 124 b
 Gelb menacanerz w, 128 ii.
 Gelberz *Kars*. 126 iv.
 Gesso compatto alabastro *Nap.* 120 c
 Gesso fibroso *Nap.* 120 b
 Geyerite *Méth.* 91 f
 Giacinto et Giargone *Nap.* 141
 Giada *Petr.* 48 g i.
 Giallamina *Petr.* 140 i.
 Gips *dichter*—120 c
 Gips *faseriger* w, 120 b
 Gips *späthiger* *Kars*. 120 a
 Gipserde w, 120 d
 Girasol *Delisle*, 91 c i.
 Glance coal J, 7 a
 Glanzkohle *muschliche* w, 7 c
 Glanzerz *Kars*. 108 iv.
 Glass schorl, Glass stein *Wid.* 15
 Glasserz w, 108 iv.
 Glasskopf *brauner* w, 64 v. f
 Glasskopf *rother* w, 64 v.
 Glasskopf *schwarzer* w, 64 v. h
 Glassy actinolite J, K, 46 a
 Glatter smaragd *Kars*. 45 a
 Glauber salt J, K, 122 c
 Glauberite *Brong.* 122 c
 Glaubersalz *Kars*. 122 c
 Glimmer w, 83

56. GOLD. TABLES, CXIX.

Or *Fr.* Gold *Ger.* Oro *Ital.* Aurum *Lat.*

Gold J, K, w, Or H, B.

a. Electrum *Klap.* Or argentale—a combination of gold and silver in a state of purity.

Gold of nagvay—126 iii.

Goldish native silver J, 108 i. a
 Gossan *brown* of Cornwall—139 i.
 Goudron mineral B, 20 b
 Grammatite H, 131
 Granat *edler*, w, 55 a
 Granat *gemeiner* w, 55 b
 Granat *schlackiger* *Kars*. 55 c
 Granat *splittriger* *Kars*. 55 d ii.
 Granatit *Reuss*. 116
 Granular actinolite J, 41 a
 Granular augite—14 b
 Granular carbonate of lead—70 iv. b
 Granular corundum—39 c
 Granular garnet—55 c
 Granular limestone—25 g
 Granular peridot—93 b
 Granular quartz—103 l
 Graphite ore J, 126 ii.
 Graphit J, B, w, 99
 Green amorphous garnet—55 d ii.

57. GREEN EARTH. TAB. LXXXII.

Green earth J, Terre verte B, Bal-dogée *Saussure*, Argile verte de monte Baldo *Nap.* Grün erde w, Terre de Verona—Talc chlorite zographique H.

Green earth is a production of the Flötz formations, Chlorite occurs only in the older rocks.

Green lead ore J, 70 v.

Green quartz—103 d

Green sand of Peru K, 38 viii.

58. GREENSTONE. TABLES, XXIX.

Greenstone J, Grünstein w, B, Diorite H, Whinstone of Scotland.

Green tourmaline J, K, 130 b

Green vitriol—122 f

Grenat H, B, 55 a

Grenat blanc *Méth.* 72

Grenat brun H, 55 b

Grenat émarginé noir H, 55 c

Grenat granuliforme H, 55 a i.

Grenat manganésic *Brong.* 55 f

Grenat noir de Frescati—55 c

Grenat ordinaire—55 b
 Grenat pyrope *Brong.* 55 a i.
 Grenat résinite n, 55 e
 Grenat rougeâtre ou verdâtre n, 55 b
 Grenat vert olive—55 d
 Grenatite *Daub.* 71—j, b, 116
 Grés b, 103 l
 Grés cristallisé b, 25 m
 Grés élastique b, 103 l ii.
 Grés flexible *Brong.* 103 l ii.
 Grey antimony—8 ii.
 Grey cobalt ore j, 37 i. a
 Grey copper ore k, 38 iv.
 Grey ore of manganese j, k, 76 i.
 Grey sulphuret of copper—38 iv.
 Grossularia w, 55 d
 Grünerde w, 57
 Grünes fossil—103 l
 Grünstein w, b, 58
 Guhr gypseux *Delisle.* 120 d
 Guhr siliceux *Klap.* 91 f
 Gültigerz *weis*—70 ii, d
 Gurofian *Klap.* 25 l iii.
 Gurhonian *Lucas.* 25 l iii.
 Gyps earth j, 120 d
 Gypse compacte b, 120 c
 Gypse pesant d'Arcet, 16 a
 Gypse terreux b, 120 d
 Gypse violet de Rosena *Deborn,* 71

HAARFORMIGES rothkupfererz w,
 38 v. a
 Haarkies w, 87 i.
 Haarsalz w, 122 e i.
 Hair pyrites j, 87 f.
 Hair salt j, 122 e i.
 Halb opal *Kars.* 91 b
 Halb zeolith *Estner,* 102
 Hallite *Méth.* 2 a
 Halotrichum *Scapoli,* 122 e i.
 Hard calcareous spar—10 a
 Hard spar j, 6

59. HARMOTOME. TABLES, LXVIII.

Cross stone j, Staurolite k, Harmotome, c'est à dire qui se de-

vise sur les jointures n, Pierre cruciforme b, Staurolite baryte. *Sausure,* Andreasbergolithe *Méth.* *Ercinite Nap.* Kreuzstein w.

Haüyn *Kars.* 66
 Heavy spar j, 16 a
 Heliotrop j, w, 24 c
 Helleflinta—48 f
 Hématite b, 64 v.
 Hématite friable *Delisle,* 64 v. c
 Hématite noire en boule fibreuse *Deborn,* 64 v. h
 Hématite rouge écailluse *Méth.* 64 v. c
 Hematitic quartz—103 h
 Hepatic barytes—16 a iv.
 Hepatic mercurial ore k, 80 iii. b
 Hepatic pyrites k, 64 iv. a
 Hepatit *Klap.* 16 a iv.
 Hœpfnerite—131
 Hierro—64
 Hierro micaceo *Herrg.* 64 iii. a
 Hierro nativo *Herrg.* 64 i.
 Hoegaüit *Selb.* 86
 Hollow spar j, 30
 Holespath w, 30
 Holz asbest *Kars.* 13 d
 Holz zinn *Wid.* 127 i. a
 Honeystone j, 79
 Honigstein w, 79
 Horn ore j, 108 vi.
 Hornblei w, 70 x.
 Hornblende *Méth.* 4 a
 Hornblende basaltiche w, 4
 Hornblende de Labrador n, 60
 Hornerz w, 108 vi.
 Hornstein *splittriger* w, *Kars.* 24 g—48 f
 Hornstone k, 24 g—j, 48 g
 Houille—36 ii.
 Houille bacillaire n, 36 c ii.
 Houille brune b, 36 c
 Houille compacte *Brong.* 36 a ii.
 Houille éclatante n, 7 c
 Houille grasse *Brong.* 36 b
 Houille de Kilkenny n, 36 a ii.
 Houille limoneuse—36 c iii.

- Houille papyracée *h*, 36 *b i*.
- Houille piciforme *b*, 36 *a i*.
- Houille scapiforme *b*, 36 *c ii*.
- Houille schisteuse *b*, 36 *b*
- Houille sèche *Brong*. 36 *a i*.
- Houillite *Daub*. 7 *a*
- Huille mineral commune *b*, 20 *a*
- Humite *Bournon*, 112 *a*
- Hyacinth *j*, *k*, *b*, 141 *a*
- Hyacinthe de Compostello—103 *h*
- Hyacinthe d'Expailie—141 *a*
- Hyacinthe de Somma *Méth*. 77
- Hyacinthe du Vésuve *Delisle*, 135
- Hyalite *w*, 91 *f i*.
- Hyazinth *w*, 141 *a*
- Hydrargillite *Davy*, 136
- Hydrargill. de Schemnitz *Méth*. 2 *a*
- Hydrargyrum—80
- Hydrophane *k*, 91 *b*
- Hydrolite *Mackenzie*, 91 *f*
- Hydrolite de Drée, 5 *b*
- Hyperstène *h*, 60
- Hydrate d'alumine *Klap*. 136

60. HYPERSTÈNE. TABLES, XLIX.

- Hyperstène *h*, Labrador hornblend *j*, Hornblend de Labrador *b*, Paulite *w*, Schiller spar—
- a*. Bergmannit *Schumacher*, probably a fibrous variety of Hyperstène.
- b*. Anthophyllite *Schumacher*, a substance from Kongsberg, probably a var. of Hyperstène, although placed as a separate species before Axinite by *Karsten*.

- JADE *k*, 48 *g i*.
- Jade *Saus*. 48 *g*
- Jade ascien *h*. 48 *g ii*.
- Jade néphritique *h*, *appén*. 48 *g i*.
- Jargon *b*, 141

61. JASPER. TABLES, XXII.

- a*. Common. Jasper *j*, *k*, Jaspe *b*,

- Quarz jaspe *h*, Jaspis *w*, Diapero *Petr*.
- b*. Opal Jasper *j*, Jaspe opal *b*, Opal jaspis *w*.
- c*. Porcellaine jasper *j*, Porcellanite *k*, Thermantide porcellanite *h*, Jaspe porcellaine *b*, Porzellan jaspis *w*.
- Jaspe égyptien *b*, 50 *c*
- Jaspe opal *b*, 61 *b*
- Jaspe porcellaine *b*, 61 *c*
- Jaspe sanguin—24 *c*
- Jaspery clay iron stone *j*, 61 *v. k*
- Jayet *h*, *b*, 36 *a*
- Iceland agate—90
- Iceland spar—25 *a*
- Ichtiophtalme *b*, 9
- Idocrase *h*, 135

62. JÉNITE. TABLES, LI.

Yénite, a name given to a mineral from Elba by Lelièvre in commemoration of the battle of Jena.—Lievrit *w*.

- Jet *k*, 36 *a*
- Igida—48 *g ii*.
- Igloït *w*, 10 *a*
- Imperfect corundum *Bournon*, 39 *b*
- Indianite *Bournon*, 48 *a*
- Indicolit *Kars*. 130 *c*
- Indicolithe *Andrada* 130 *c*
- Indurated clay—101 *b*
- Indurated talc *j*, 124 *a*
- Inolite *Gall*. 25 *b*
- Iridium *Tennant*, 98

63. IOLITE. TABLES, XCVI.

Iolithe *h*, *w*, Cordierite *Lucas*
Dichroïte *Cordier*, considered by *Bournon* as a var. of quartz.

There is a substance from India which possesses some of the principal characters of this mineral, and has been considered Dichroïte; it is transparent; by

transmitted light, it is of a grey colour in one direction, and of a deep indigo blue in another. It is usually brought to Europe in small polished masses, about the size of a nut. It has not been submitted to regular analyses, but contains nearly one-third of magnesia, upwards of one-half of silex, and about one-tenth of iron.

CXXV

64. IRON. TABLES, CXXIV.

FER *Fr.* EISEN *Ger.* FERRUM *Lat.*
HIERRO *Span.*

- i. NATIVE. *Fossil.* Native iron J, K, Eisen gediegen w, Fer natif h, B, Fer malléable natif *Delisle*, Hierro nativo *Herrg.* Ferro nativo *Petr.* Tellureisen *Kars.*

a. Meteoric.—See 82.

b. Native Steel. Acier natif pseudo volcanique h, Acier natif *Méth.*

- ii. MAGNETIC. Magnetic iron stone J, Fer oxydulé h, Magnetic iron ore K, Fer magnetique B, Aimant *Delisle*, Magnet eisenstein w, Mina de Hierro magnetico *Herrg.*

a. Magnetic iron sand J, Magnetic sand K, Fer magnetique sablonneux B, Eisensand w, Fer oxydulé titanifère h, Fer titané *Cordier*. These two last are probably the same as the Granular titanium—Arena de hierro magnetico *Herrg.*

b. Magnetic pyrites K, Fer sulfuré ferrifère h, Magnet kies w.

- iii. SPECULAR. Iron glance J, Specular iron ore K, Fer oligiste h, Fer spéculaire B, Eisenglanz w, Fer sublimé des volcans *Faujas*, Fer de l'Isle d'Elbe, de Framont, et volcanique *Méth.* Miniera di Acciajo *Petr.*

a. Scaly. Iron mica J, Micaceous iron ore K, Fer oligiste écailleux h, Eisen glinamer w, Hierro micaceo *Herrg.* Fer micacé B.

- iv. SULPHURET. Iron pyrites J, Martial pyrites K, Fer sulfuré h, Mine sulfureuse de fer *Mongez*, Fer sulfuré au maximum *Méth.* Pirita de azufre *Herrg.* Schwefelkies w, Marcassites *Delisle*.

a. Hepatic pyrites K, Liver pyrites J, Pyrite sul. épigène h, Pyrite hépatique B, Pyrite brune martiale *Bomare*, Fer hépatique *Deborn*, Pirita hepatica *Herrg.* Leberkies *Kars.*

b. Capillary pyrites,—found to be Native nickel.

v. OXIDE.

a. Red. Red hematite J, K, Fer oligiste concretionné h, Rother glaskopf w, Amatita *Petr.* Hématite B, Kidney iron ore—

b. Reddle J, Fer oxydé graphique, ou Fer oligiste argillifère compacte rouge h, Sanguine *Deborn*, Crayon rouge B, Röthel w, Red chalk—Ochriger Thoneisenstein *Kars.*

c. Red iron froth J, Red scaly iron ore K, Fer oligiste luisant h, Eisenrahm rouge B, Rother eisenrahm w, Hématite friable *Delisle*, Hématite rouge écailleuse *Méth.* Fer micacé rouge *Daub.* Eisenrahm roxo *Herrg.* Schuppiger rotheisenstein *Kars.*

d. Columnar clay iron stone J, Fer oligiste bacillaire conjoint h, Fer argilleux scapiforme B, Fer limoneux en prismes *Deborn*, Stängliger thoneisenstein w.

e. Red ochre K, Fer oligiste terreux h, Eisenokker w, Ochriger rotheisenstein *Kars.*

f. Brown. Brown hematite *J*, *κ*, Fer oxydé hématite *h*, Fer oxyde brun fibreux *Brong.* Brauner glasskopf *w*.

g. Brown iron ochre *κ*, Fer ox. brun ocreux *Brong.* Ocre martiale brune *Delisle*, Braun eisen okker *w*, Ochriger braun eisenstein *Kars.* Ocro de hierro pardo *Herrg.*

h. Black. Black hematite *J*, Schwarzer glasskopf *w*, Hématite noire, en boules à cassure fibreuse *Deborn.*

i. Fer noir, ou Ethiops martial natif *Deborn*, Fer ox. au minimum *Méth.* Fer oxydulé fuligineux *h*, Eisenschwärze *Reuss.*

k. Jaspersy clay iron stone *J*, Fer argilleux jaspoide *h*, Compact clay iron stone—

l. Pea ore *J*, Fer oxydulé brun granuleux *Brong.* Fer oxydé globuliforme *h*, Kuglicher thoneisenstein *Kars.* Bohnerz *w*.

m. Lenticular clay iron stone *J*, Fer argilleux grenu ou lenticulaire *h*, Körniger thoneisenstein *w*.

D'Aubuisson proposes to establish a new species among the irons, comprehending under the name of Hydrates, the Brown Hematites, Pea ore, Lenticular clay iron stone, and all those distinguished in the chemical tables, by the loss of a considerable portion of their weight by calcination, supposed to be water.—*Jour. des Mines* vol. 28.

vi. CARBONATE. Sparry iron stone *J*, Calcareous, or Sparry iron ore, also Ferricalcites *κ*, Fer oxydé carbonaté, formerly Chaux carbonatée ferrifère *h*, Fer spatique *h*, Spath fusible *Delisle*, Fer spatique, ou mine d'acier *Méth.* Ferro aerato *Petr.* Piedra de a-

cero *Herrg.* Spath eisenstein *w*, Steelstone—

a. Common clay iron stone *J*, Com. argillaceous iron ore *κ*, Fer ox. argillifère massif *h*, Mine de fer limoneuse en roche *Delisle*.

vii. PHOSPHATE. Fer phosphaté cristallisé *h*, Schorl bleu de Sibérie *Macquart*, Bleu martial fossile cristallisé *Sage*, Fer phosphaté au maximum *Méth.* Fer phosphaté laminaire *Brong.*

a. Earthy. Blue iron earth *J*, Fer phos. terreux, formerly Fer azuré pulverulent *h*, Prussiate de fer natif *Deborn*, Blue martial earth *κ*, Fer terreux bleu *h*, Fer azuré *Méth.* Fer phos. azuré *Brong.* Blaue eisenerde *w*.

b. Pulverulent. Bog ore *J*, Morass, Swamp, and Meadow ore *κ*, Rasen eisenstein *Kars.* Morassterz, Sumpferz, Wiesen-erz *w*. Mine de marais, des lieux bourbeux et de prairies *h*, Fer oxydé des lacs *Lucas*.

c. Massive. Pitchy iron ore *J*, Eisenpecherz *w*, Manganèse phosphaté *Brongniart*, Fer oxydé resinite *Lucas*. Pecherz ferrugineux *Meth.* Pittizit *Haus.*

viii. ARSENATE. Cube ore *J*, Fer arseniaté *h*, Wurfelerz *w*, Mina cubica *Herrg.* Cupreous arseniate of iron *Bournon*, Cuivre ars. ferrifère *h*.

ix. CHROMATE. Chromate of iron *J*, Fer chromaté *h*, Chrome oxydé ferrifère *St Memin*, Fer chromé *Laugier*, Eisenchrom *Kars.*

x. MURIATE. Fer muriaté *Lucas*, Pyrodmalith *Hausman.*

Iron glance *J*, 64 iii.

Iron flint *J*, 103 *h*

Iron mica *J*, 64 iii *a*

Iron pyrites *J*, 64 iv.

Iron vitriol *J*, 122 *f*

ISE

Iserin *Kars.* 128 i. c
 Julla—36
 Jupiter—127 i.

Kalksinter w, 10 b—25 b
 Kalkspath w, 25 a
 Kalkstein *excentrischer Kars.* 10 a
 Kalkstein *faseriger w,* 25 c
 Kalkstein *dichter w,* 25 h
 Kalkstein *körniger w,* 25 g
 Kalkstein *spätiger Kars.* 25 a
 Kalzedon *gemeiner*—24 a
 Kalzedonartiger kieselinter *Haus-*
man 91 f
 Kallochrom *Haus.* 70 vii.
 Kaneelstein w, 55 a ii.
 Kännel kohle w, 36 a ii.
 Kaolin κ, 48 h
 Karabé *Deborn,* 3
 Karfunckel *Reuss.* 55 a i.
 Karneol w, 24 c
 Karstenit *Haus.* 120 c
 Katzenauge—103 g
 Keffikill κ, 75 b i.

65. KEFFEKILITHE. TAB. XCVII.

A name given by Fischer of Moscow, to a mineral from the Crimea, which is supposed by Leonhard to be an indurated Lithomarga.

Kermes mineral natif *Deborn,* 8 iv.
 Kératite *Méth.* 24 g
 Kidney iron ore j, 64 v.
 Kiesel guhr *Klap.* 68 d
 Kiesel schiefer w, 103 i.
 Kieselinter *gemeiner Kars.* 91 f
 Kilkenny coal—7 b
 Klaprothite *De Drée,* 69 a
 Klebschiefer w, 1
 Klingstein w, 35
 Kobalt—37
 Kobalt blüthe *Kars.* 37 iii.
 Kobalt glanz *Kars.* 37 i. b
 Kobalt mulm w, 37 ii.
 Kobalt vitriol w, 122 i.

LAI

Kohle—36
 Kohlenblende *Est.* 7 a
 Kohlenblende of Bornholm—54
 Kohlenstoffsäure *Germ.* 26 a
 Kokkolithe w, 14 b
 Kolyrite *Kars.* 2 a
 Korallenerz—80 iii. b
 Koréite *Méth.* 117 c
 Koernerkrenerz of Hesse—38 ii. b
 Körniger augite *Kars.* 14 b
 Körniger thonsisenstein—64 v. m
 Körniges zinnerz w, 127 i. a
 Korund *gemeiner w,* 39 b
 Koupholite b, 102
 Kreide w, 25 f
 Kreuzstein w, 59
 Krisoberyll w, 33
 Kryolith w, 2 b
 Krysolith w, 93 a
 Krysopras w, 24 f
 Kubezit w, 5 a
 Kuglicher thoneisenstein *Kars,* 64
 v. l
 Kupfer—38
 Kupfer blüthe *Wid.* 38 v. a
 Kupfer *gediegen w,* 38 i.
 Kupfer vitriol—122 g
 Kupfer *salsures w,* 38 viii.
 Kupfer schwärze—38 ii. a
 Kupfererz *phosphor w,* 38 ix.
 Kupferglanz *Kars.* 38 ii.
 Kupferglass w, 38 ii.
 Kupferglimmer w, 38 x. ii.
 Kupfergrün w, 38 vii.
 Kupfergrün *crystalis. Est.* 38 vii. b
 Kupferkies w, 38 ii.
 Kupferlatur w, 38 vi.
 Kupfernickel w, 87 ii.
 Kupfersmaragd w, 38 vii. b
 Kyanite w, 105

LABRADOR hornblend j, 60
 Labradorische hornblende *Emm.* 41 b
 Labradorite *Méth.* 48 c
 Labradorstone j, κ, 48 c
 Lac lunæ—25 f i.
 Lait de montagne b, 25 f i.

Laminated talc—124 *b*
 Lapis lazuli *κ*, 69
 Lapis lydius *Wall.* 103 *i*.
 Lapis mutabilis—91 *b*
 Lardite *Petr.* 117 *a*
 Lasulit de Werner *h*, 69 *a*

66. LATIALITE. TABLES, XCVIII.

Latialite *h*, Haiyūn *Kars.* Saphirin *Nose*, Lazulith de Somma *Breyslac*, Spinelle bleu *Cordier*. A blue coloured mineral found among the volcanic products of Italy.

67. LAUMONITE. TABLES, LX.

Laumonite *h*, formerly Zeolithe efflorescente—Mesotype laumonite *Brong.* Lomonite *j*.

68. LAVA. TABLES, XXVI.

- a.* Lava *j*, *κ*, Lave *b*, Lave lithoïde *h*, Lave proprement dite *Dolomieu*.
- b.* Vesicular. Pumice *j*, *κ*, Lave vitreuse pumicée *h*, Pierre de Ponce *b*, Bimstein *w*.
- c.* Earthy. Moya *Klap.* Volcanic mud of Quito.
- d.* Pulverulent. Kiesel ghur *Klap.* Volcanic ashes—

Lave lithoïde basaltique *h*, 17
 Lave vitreuse obsidienne *h*, 90
 Lave vitreuse pumicée *h*, 68

69. LAZULITE. TABLES, LVIII.

- Azure stone *j*, Lapis lazuli *κ*, Lazulite *h*, Zeolithe bleue *Deborn*, Zeolite turchina *o* Lapis lazzoli *Petr.* Lazurstein *w*.
- a.* Lasulit de Werner *h*, Klaprothite *De Drée*, Tyrolite et voraulite *Méth.* Faux lapis *Stütz*, Blauspath *w*, Lazulit gemeiner *Kars.*

Lazulit gemeiner *Kars.* 69 *a*
 Lazulit splittiger *Kars.* 48 *c*

Lazulithe de Somma *Breyslac*, 66
 Lazurstein *w*, 69

70. LEAD. TABLES, CXXII.

PLOMB *Fr.* BLEI *Ger.* PLUMBUM
Lat. PLOMO *Span.* PIOMO *Ital.*—
 SATURN of the Alchemists.

- i.* NATIVE. Plomb natif volcanique *h*.
- ii.* SULPHURET. Lead glance *j*, Galena *κ*, Plomb sulfuré *h*, Galène *b*, Bleiglanz *w*, Alquifoux ou mine de vernis des potiers *Lucas*.
 - a.* Compact lead glance *j*, Compact galena *κ*, Plomb sulfuré compacte *h*, Galène compacte *Deborn*, Bleischweif *w*.
 - b.* Plomb sul spéculaire *h*, Galène spéculaire *Deborn*, Slickensides of Derbyshire.
 - c.* Plomb sulfuré antimonifère *h*, Galène antimoniale *Méth.* Spiesglanz blei *Kars*.
 - d.* Plomb sul. antimonifère et argentifère *h*, White silver ore *j*, Light grey silver ore *κ*, Mine blanche riche *b*, Argent blanc *Brong.* Mina de plata blanca *Herrg.* Weisgultigerz *w*, Argent blanc de Freyberg—
 - e.* Cupreous antimonial sulphuret—Antimonial sul. of lead *Thoms.* Tripple sulphuret *Hatchet*, Endelion *Bournon*, Bournonite *j*.
- iii.* OXIDE. Lead earth *j*, Native ceruse *κ*, Plomb oxydé *h*, Plomb terreux *b*, Bleierde *w*.
 - a.* Native minium *Smithson*, Plomb ox. rouge *Lucas*.
- iv.* CARBONATE. White lead ore *j*, *κ*, Plomb carbonaté *h*, Plomb blanc *b*, Weisbleierz *w*, Plomo blanco *Herrg.*
 - a.* Black lead ore *j*, Plomb carb. noir *h*, Mine de plomb noire *b*, Plomo negro *Herrg.* Schwarz

bleierz w, Dunkler bleispath *Kars.*

b. Lead earth *J*, Bleierde w, Compact or granular carb. of lead—

v. PHOSPHATE. Brown and green lead ore *J*, Phosphorated lead ore *K*, Plomb phosphaté *H*, Plomb vert *B*, Braun and grün bleierz w, Gemeines phosphorblei *Kars.* Pyromorphit *Haus.*

a. Blue lead ore *J*, *K*, Plomb bleu *B*, Blau bleierz w, Plomb sulfuré épigène *H*.

b. Plomb phosphaté arsenifère *H*, Plomb arseniaté *Mohr*, Muschliges phosphorblei *Kars.* Traubenerz *Klap.*

vi. ARSENATE. Plomb arsenié *H*, *B*, Bleimiere w, Flokkenerz *Kars.* Massicot natif—

vii. CHROMATE. Red lead ore *J*, Red lead spar *K*, Plomb chromaté *H*, Plomb rouge *B*, Plomb spatique rouge *Pallas*, Plomo roxo espatico *Herrg.* Rothbleierz w, Kallochrom *Haus.*

a. Plomb chromé *Bourmon.*

viii. MOLYBDATE. Yellow lead ore *J*, Yellow molybdenated lead ore *K*, Plomb molybdaté *H*, Plomb jaune *B*, Plomo amarillo *Herrg.* Gelb bleierz w.

ix. SULPHATE. Natural lead vitriol *J*, Native vitriol of lead *K*, Plomb sulfaté *H*, Vitriol de plomb natif *B*, Blei vitriol w.

x. MURIATE. Plomb muriaté *B*, Hornblei w, Murio-carbonate of lead—

Lead earth *J*, 70 iii.

Lead glance *J*, 70 ii.

Lead vitriol *J*, 70 ix.

Leberkies *Kars.* 64 iv. *a*

Leberstein *Cronst.* 16 *a* iv.

Lehmanite *Méth.* 48 *g*

Lenticular clay iron stone *J*, 64 v. *m*

71. LEPIDOLITE. TABLES, LXX.

Lepidblite *J*, Lepidolithe *H*, Lilalit *Poda*, Gyps violet de Rosena *Deborn*, Lepidolita *Herrg.* White var. from Sweden, Petalite according to *De Drée.*

72. LEUCITE. TABLES, XXXIX.

Leucite *J*, Amphigène *c'est à dire* que a une double origine *H*, Vesuvian *K*, Grenat blanc *Méth.* Grenatite *Daub.* Leucolite *Nap.* Leucite *Herrg.* Leuzit w, White garnet—

Leucolite *Nap.* 72

Leucolithe d'Altenberg *Métherie*, 129 *appen. i.*

Leucolithe de Mauléon *Méth.* 43

Leutritite *Lucas*, 25 *i.*

Leuzit w, 72

Levisilex *Méth.* 50 *b*

Lherzolite *Méth.* 14 *c*

Lidischerstein w, 103 *i.*

Liège de montagne *B*, 13 *c*

Lievrit w, 62

Light grey silver ore *K*, 70 ii. *d*

Lignite friable *Brong.* 36 *c* iii.

Lignite jayet *Brong.* 36 *a*

Lignite terreux *Brong.* 36 *c* iv.

Ligniform asbestos *K*, 13 *d*

Ligno bituminoso *Petr.* 36 *c* i.

Ligno montañño *Nap.* 13 *d*

Lilalit *Poda*, 71

Limestone compact—25 *h*

Limestone granular—25 *g*

73. LIMBELITE. TABLES, XCIX.

Limbelite *Saus.* Peridot alteré *Brard.*—found at Limbourg in the cavities of Basaltic porphyry.

Lino fossile *Nap.* 13 *a*

Lino de Piedra amianto *Herrg.* 13 *a*

Linsenerz w, 38 *x.*

Liquid bitumen—20 *a*

74. LITHOMARGA. TAB. LXXXVI.

- Lithomarge J, H, Lithomarga K,
 Moëlle de Pierre B, Steinmark W.
 Lithéosphore *Méth.* 16 a iii.
 Liverpyrites J, 64 iv. a
 Liverstone K, 16 a iv.
 Lomonite J, 67
 Lotalalite *Siverguine*, 41 a
 Lustsaures silber *Wid.* 108 v.
 Lux saphir—39 a
 Lydianstone J, 103 i.
 Lydienne *Méth.* 103 i.
 Lythrones—137 d

- MACLE H, 30
 Madréporite H, B, 25 m iii.
 Madreporsstein *Kars.* 25 m iii.
 Magnélithe *Hopf.* 48 g

75. MAGNESIA. TABLES, XVI.

- a. NATIVE. Native magnesia *Bruce*,
 Magnésie pure, ou Magnésie hy-
 dratée *Lucas*, Magnesie native B,
 Magnesite—
 b. CARBONATE. Native talk earth J,
 Native magnesia *Thomson* Mag-
 nésie carbonatée H, Magnésie
 native B, Magnesite de Mitchel
Brong. Baudisserite, Roubischite
Méth. Reine talkerde W.
 i. Meerschäum J, W, Ecume
 de mer—Magnésite ecume de
 mer *Brong.* Keffikil also Myr-
 sen K.
 c. BORATE. Boracit J, W, B, Bora-
 cited calx K, Chaux boracique
Deborn, Spato sedativo *Nap.*
 Quarz cubique—Würfelstein
Westr. Magnésie boratée H.
 Magnesien carb. of lime—25 l
 Magnésie boratée H, 75 c
 Magnésie carbonatée H, 75 b
 Magnésie hydratée—75 a

- Magnésie ferrifère capillaire H, 122
 e i.
 Magnésie native B, 75 b
 Magnésie pure—75 a
 Magnésie sulfatée H, 122 c
 Magnesite—75 a
 Magnésite ecume de mer *Brong.*
 75 b
 Magnésite de Mitchel *Brong.* 75 b
 Magnet eisenstein W, 64 ii.
 Magnetkies W, 64 ii. b
 Magnetic iron ore K, 64 ii.
 Magnetic iron stone J, 64 ii.
 Magnetic sand K, 64 ii. a
 Malachite K, J, B, W, 38 vii.
 Malacolite *Abild.* 104
 Malta *Petr.* 20 b
 Mangan *Kars.* 76

76. MANGANESE. TABLES, CXXXI.

MANGANESE *Fr.* BRAUNSTEIN *Ger.*
 MANGAN *Kars.*

De la Proust described in
 the Memoires de l'Academie de
 de Toulouse for 1782, a mineral
 from Vicdessos under the name
 of Native manganese; which,
 although a production of the
 eastern Pyrenees, has not subse-
 quently become known to mine-
 ralogs.

- i. OXIDE. Grey ore of manganese
 J, K. Manganèse oxydé H, Man-
 ganèse gris B, Manganesa radi-
 ada *Herrg.* Grau braunsteinerz
 W, Grau manganerz *Kars.*
 a. Mang. ox. metalloïde ar-
 gentifère H, Manganschaum *Kars.*
 Espuma de manganesa *Herrg.*
 Fleurs de manganèse—
 b. Earthy. Manganèse ox.
 noir brunâtre H, Verhätetetes
 schwarz manganerz *Kars.* Ochro
 de manganesa *Herrg.*
 c. Bituminous. Manganèse ox.
 terreux bituminifère H, Mang.

inflammable *Beurard*, Wad *Kars*.
Black wad des Anglais *Lucas*.

d. Cobaltic manganese. The ore of Ringersdorff is a combination of this description according to Klaproth.

ii. CARBONATE. Red ore of manganese κ , Manganèse ox. carbonaté, formerly Rose silicifère η , Roth braunsteinerz w , Roth Manganerz *Kars*. Manganèse carbonaté *Méth.* Manganèse lithoïde rouge *Brong.* Manganèse rouge b .

iii. SULPHURET. Manganèse sulfuré η , Sulfure de manganèse *Proust*, Mangan glanz *Kars*.

iv. PHOSPHATE. Pitchy iron ore j , Manganèse phosphaté ferrière η , Fer phosphaté b , Manganèse et Fer phosphaté *Méth.* Phosphormangan *Kars*.

Manganerz grau *Kars*. 76 i.

Manganerz roth *Kars*. 76 ii.

Manganesa radiada *Herrg.* 76 i.

Manganèse carbonatée *Méth.* 76 ii.

Manganèse granatiforme b , 55 *f*

Manganèse gris b , 76 i.

Manganèse inflammable *Beurard*, 76 i. *c*

Manganèse lithoïde rouge η , 76 ii.

Manganèse oxydé η , 76 i.

Manganèse ox. carbonaté η , 76 ii.

Manganèse ox. metalloïde argentifère η , 76 i. *c*

Manganèse ox. [noir brunâtre η , 76 i. *b*

Manganèse ox. rose silicifère 76 ii.

Manganèse ox. terreux bitumineux η , 76 i. *c*

Manganèse phosphaté, *Brong.* 64 vii. *c*

Manganèse rouge b , 76 ii.

Manganèse phos. ferrière η , 76 iv.

Manganèse sulfuré η , 76 iii.

Manganesian garnet—55 *f*

Mangan glanz *Kars*. 76 iii.

Manganschaum *Kars*. 76 i. *a*

Marcassitta *Petr.* 12 iv.

Marcassites *Delisle*, 64 iv.

Marekanite b , 90 *a*

Marle earth j , 25 i.

Marne argilleuse *Brong.* 25 *i*

Marne terreuse b , 25 *i*,

Martial pyrites κ , 64 iv.

Mascagnin *Kars*. 122 *b*

Meadow ore j , 64 vii. *b*

Massicot natif—70 vi.

Mealy zeolite j , 81 *a*

Méconites—25 *c* i.

Meerschäum—75 *b* i.

Mehlbaz—25 *h*

Mehlzeolith w , 81 *a*

77. MEIONITE. TABLES, xli.

Méionite, *c'est à dire* moins ou inférieur η , Hyacinthe de la Somma *Méth.*

Melanite j , w , b , 55 *c*

Mélantherite *Méth.* 44

78. MELILITE. TABLES, c.

Melilite η , b , a mineral found in the clefts of lava at Capo di Bovi.

79. MELLITE. TABLES, cxiii.

Honeystone j , Mellilite κ , Mellite η , Pierre de miel b , Succin cristallisé *Deborn*, Alumine mélatée *Méth.* Piedra melada *Petr.* Honigstein w .

Menacan w , 128 i. *c*

Menacanerz braun & gelb w , 128 ii.

Menachine *Gregor*, 128

Menachinite j , 128 i *c*

Ménakanite *Brong.* 128 i. *c*

Ménilite w , 91 *d*

Mercur—80

Mercur argentale η , 80 ii.

Mercur corré η , 80 iv.

Mercur coulant *Delisle*, 80 i.

Mercur doux natif *Delisle*, 80 iv.

Mercur hépatique η , 80 iii. *b*

Mercur muriaté η , 80 iv.

Mercury natif *H*, 80 *i*.
 Mercure sulfuré *H*, 80 *iii*.
 Mercure sul. bituminifère *H*, 80 *iii*. *b*
 Mercure vierge *Delisle*, 80 *i*.

80. MERCURY. TABLES, CXXI.

MERCURE *Fr.* AZOGUE *Span.*
 HYDRARGYRUM *Lat.* QUICKSIL-
 BER *Ger.*

i. NATIVE. Native quicksilver *J*,
 Native mercury *K*, Mercure na-
 tif *H*, Mercure vierge ou coulant
Delisle, Azogue nativo *Herrg.*
 Gediegen quicksilver *w*.

ii. ARGENTIFEROUS. Amalgam *J*,
w, *B*, Mercure argental *H*, A-
 malgama nativo de Plata *Herrg.*

iii. SULPHURET. Cinnabar *J*, Na-
 tive cinnabar *K*, Mercure sulfu-
 ré *H*, Cinnabar *B*, Mine de mer-
 cure sulfureuse *Delisle*, Oxyde
 de mercure sulfuré rouge *Deborn*,
 Cinabrio *Herrg.* Zinnober *w*.

a. Pulverulent. Native ver-
 million—Fleurs de cinnabre *De-*
lisle.

b. Hepatic. Quicksilver liver
 ore *J*, Hepatic mercurial ore *K*,
 Mercure sulfuré bituminifère *H*,
 Mercure hépatique *B*, Mina de
 azogue hepatico *Herrg.* Quick-
 silver lebererz *w*, Testaceous
 var. Korallenerz—

c. Earthy. Black friable cin-
 nabar *J*, Ethiops mineral natif *B*,
 Natürlicher mineral mohl *w*.

iv. MURIATE. Quicksilver horn
 ore *J*, Corneous mercurial ore *K*,
 Mercure muriaté *H*, Mercure
 corné *B*, Mercure doux natif *De-*
lisle, Mina de azogue corneo
Herrg.

Merda de Diavolo—36 *b* *i*.

Mere d'éméraude *Nonnull*, 24 *f*

Mergelerde *w*, 25 *i*

Mergelschiefer bituminaser *w*, 25 *k*

81. MESOTYPE. TABLES, LIX.

Radiated, Fibrous, and Needle-
 zeolite *J*, Mésotype, *c'est à dire*
 forme primitive moyenne *H*, Mé-
 sotype zeolite *Brong.* Faser ze-
 olith and Nadelstein *w*, Prisma-
 tischer and Faser zeolith *Kars.*

a. Farinaceous. Mealy zeolite *J*,
 Mésotype alterée *H*, Zeolithe
 farineuse *B*, Mehl zeolith *w*.

b. Brick coloured. Zeolithe
 rouge d'Edelfors *H*, Edelite *B*,
 Mésotype crocalite *Brong.* Cro-
 calite *Est.*

Mésotype alterée *H*, 81 *a*

Mésotype concretionnée, &c. *H*, 86

Mésotype crocalite *Brong.* 81 *b*

Mésotype laumonite *Brong.* 67

Meteoreisen *Kars.* 82

Meteoric iron—82

82. METEOROLITE. TAB. CXXI.

Thunderstone—Moonstone—A-
 erolithe—Bolide—Ceraunite—
 Pierre de Tonnère, &c.

Meteoric iron—Fer natif mété-
 orique *H*, Meteoreisen *Kars.*

From the investigations of Pal-
 las and Ruben de Celis, no doubt
 seems now to remain that the
 celebrated masses of native iron,
 found in Siberia and South Ame-
 rica are of meteoric origin. The
 circumstances under which they
 were both discovered, first sug-
 gested this idea, which has been
 very amply confirmed by the sub-
 sequent chemical investigations
 of Mr Howard.

83. MICA. TABLES, LXXI.

Mica *J*, *K*, *H*, *B*, Talc *Daub.* Glim-
 mer *w*, Schisolith *Haus.* Mus-
 covy glass—

Mica vert *Leske*, 134 *i*.

Micaceous iron ore κ , 64 iii. *a*
 Micaceous uranitic ore κ , 134 i.
 Micarelle κ , 96
 Micarelle *Abild.* 137 c
 Miémite *Reuss.* 25 l
 Mikaphyllite *Brunner*, 6
 Milch quartz w, 103 *f*
 Milk quartz *J*, 103 *f*
 Mina arsenical blanca *Herrg.* 12 iv.
 Mina de azogue corneo *Herrg.* 80 iv.
 Mina de azogue hepatico *Herrg.* 80 iii. *b*
 Mina cubica *Herrg.* 64 viii.
 Mina de hierro magnetico *Herrg.* 64 ii.
 Mina de plata blanca *Herrg.* 70 ii. *d*
 Mina de plata negra *Herrg.* 108 iii. *a*
 Mina de plata roxa *Herrg.* 108 iii.
 Mina de plata vidriosa *Herrg.* 108 iv.
 Mine d'argent antimoniale *Daub.* 108 ii.
 Mine d'argent grise *Mongez*, 38 iv.
 Mine d'argent en plumes—8 ii.
 Mine blanche riche *B.* 70 ii. *d*
 Mine de cuivre antimoniale *Deborn*, 38 iv.
 Mine de cuivre jaune *Deborn*, 38 iii.
 Mine de cuivre vitreuse rouge *Delisle*, 38 v.
 Mine de fer limoneuse en roche *Delisle*, 64 vi. *a*
 Mine de lieux bourbeux *B.* 64 vii. *b*
 Mine de mercure sul. rouge *Deborn* 80 iii.
 Mine de mercure sulfureuse *Delisle*, 80 iii.
 Mine de marais *B.* 64 vii. *b*
 Mine de plomb noire *B.* 70 iv. *a*
 Mine de prairies *B.* 64 vii. *b*
 Mine sulfureuse de fer *Mongez*, 64 iv.
 Mine de vernis des potiers *Lucas*, 70 ii.
 Mineral cahouchou κ , 20 c
 Mineral mohr *natürlicher* w, 80 iii. *c*
 Mineral pitch *J*, Mineral tar—20 b
 Miniera di Acciajo *Petr.* 64 iii.
 Miroitante *Méth.* 41 b

Mispickel *Delisle*, 12 iv.
 Mittelstein—25 m
 Mock diamond—141
 Moëlle de pierre *B.* 74
 Mohr mineral w, 80 iii. *c*
 Molarite *Méth.* 103 n i.
 Moliddeno *Petr.* 84

84. MOLYBDENA. TAB. CXXXIV.

Molybdene *J*, Molybdène sulfuré *H.*, Plomo de agua *Herrg.* Wasserblei w, Molybdänglanz *Kars.* Moliddeno *Petr.*

Molybdate of lead—70 viii.
 Moonstone κ , 48 b
 Moonstone—82
 Moorcoal *J*, 36 c iii.
 Moorkohle w, 36 c iii.
 Morass ore *J*, 64 vii. *b*
 Morassterz w, 64 vii. *b*
 Moroxite *Kars.* 94 a
 Mountain cristal κ , 103 a
 Moya *Klap.* 68 c
 Mountain green *J*, 38 vii. *a*
 Mountain leather—13 c
 Mountain paper—13 c
 Müllersglass—91 *f* i.
 Muriacit *Klap.* 120 c
 Muriacite *Fichtel*, 85 b
 Muriate of ammonia—85 c
 Muriate of copper—38 viii.
 Muriate of lead—70 x.
 Muriate of mercury—80 iv.
 Muriate of silver—108 vi.
 Muriate of soda—85 b
 Muriated antimony—8 iii.

85. MURIATIC SALTS. TAB. IV.

- a.* NATIVE. Acid muriatique *Lucas*, Acid of sea salt—Salzsäure w, Acido muriatico *Petr.* sometimes occurs in rock salt, and also in the waters of volcanic countries.
b. MURIATE OF SODA. Rock salt *J*, Sal gemme κ , Soude muriatée *H.*, Sel de cuisine *B.*, Steinsalz w,

MUR

Common salt—Alkali mineral
muriatique *Berg.* Soude muriatée gypsifère *Brong.* Muriacite *Fichtel.*

c. MURIATE OF AMMONIA. Sal ammoniac *J, K,* Ammoniaque muriatée *H,* Sel ammoniac natif *B,* Alkali volatil muriatique *De-lisle,* Salmiak *Kars.*

Muricalcite *K, 25 l*

Murio-carbonate of lead—70 *x.*

Muschliche glanzkohle *w, 7 c*

Muschliges phosphorblei *Kars. 70 v. b*

Muscovy glass—83

Mussite—104

Myrsen *K, 75 b i.*

NACRITE *Brong. 124 c*

Nadelerz *w, 19 ii. a*

Nadelstein *w, 81*

Nadelstein—128 *i.*

Nagiagerz *w, 126 iii.*

Nagyker ore *J, 126 iii.*

Naphta—20 *a*

Naphte *Deborn, 20 a*

Native alum *K, 122 d*

Native antimony *J, K, 8 i.*

Native argile *K, 2 a*

Native arsenic *J, K, 12 i.*

Native bismuth *J, K, 19 i.*

Native borax—22

Native calx of arsenic *K, 12 ii.*

Native carbonic acid—26 *a*

Native ceruse *K, 70 iii.*

Native cinnabar *K, 80 iii.*

Native copper *J, K, 38 i.*

Native iron *J, K, 64 i.*

Native lead—70 *i.*

Native magnesia *Bruce, 75 a*

Native magnesia *Thoms. 75 b*

Native manganese *Perouse, 76*

Native mercury *K, 80 i.*

Native muriatic acid—82 *i.*

Native mineral carbon *K, 7 a*

NIC

Native nickel—87 *i.*

Native quicksilver—80 *i.*

Native silver *J, K, 108 i.*

Native steel—64 *i. b*

Native sulphuric acid—122 *i.*

Native sylvan *J, 126 i.*

Native talc earth *J, 75 b*

Native vermilion—80 *iii. a*

Native vitriol of lead *K, 70 ix.*

86. NATROLITE. TABLES, XLIV.

Natrolit *J, Mésotype concretion-née mamelonnée jaunâtre et jaune rougeâtre, à tissu fibreux et serré H, Hoegaüit Selb. Zeolithhe jaune de Schaffhausen Belle-vue.*

Natrolite of Sweden—137 *d*

Natron *Kars. 26 b*

Natron des anciens *Lucas, 26 b*

Natural epsom salt—122 *c*

Natural lead vitriol *J, 70 ix.*

Natural soda *J, 26 b*

Natürlicher vitriol *w, 122 f*

Needle ore *J, 19 ii. a*

Needle zeolite *J, 81*

Némate *H, 92 a*

Néopetre *Saus. 24 g*

Néphéline *H, B, 110*

Nephrit *Kars. 48 g i.*

Niccolanum *Richter, 87 iii. a*

Nichelio—87

87. NICKEL. TABLES, CXXIII.

NICCOLUM *Lat. NICHELIO Ital.*

i. NATIVE. Nickel natif *H, Gediegen nikkell Klap. Haarkies w, Pyrite capillaire B, Capillary pyrites—Hair pyrites J. This substance has been placed under the heads of both Iron and Bismuth.*

ii. ARSENICAL. Copper nickel *J, Nickel arsenical H, Kupfernickel w, Nicolo de cobre Herrg.*

NIC

iii. OXIDE. Nickel ochre *J*, *K*, Nickel oxydé *H*, Ocre de nickel *B*, Floss niccoli *Wall*. Carb. de nickel *Daub*. Nikkel okker *w*, Earthy var. Pimelite *Kars*.

a. Niccolanum; the supposed new metal of *Richter*, has been found to be a compound of Nickel and Cobalt, with a trace of Iron and Arsenic, by *Hisinger* and *Gehlen*.

iv. ANTIMONIAL.

Nickel arsenical *H*, 87 ii.

Nickel ochre *J*, *K*, 87 iii.

Nickel okker *w*, 87 iii.

Nickel oxydé *H*, 87 iii.

Nicolo de cobre *Herrg*, 87 ii.

Nigrica *Wall*. 44

Nigrin *Kars*. *w*, 128 i. *c*

Nigrine *J*, 128 i. *c*

Nikkel gediegen *Kars*. 87 i.

Nitre *J*, *K*, 89 i.

Nitre calcaire *Deborn*, 89 ii.

Nitre des anciens *Lucas*, 26 *b*

Nitrate of potash *Thoms*. 89

89. NITRIC SALTS. TABLES, III.

i. NITRATE OF POTASH. Nitre *J*, *K*, Potasse nitrée *H*, Alkali végétal nitré *Berg*. Nitrate of potash *Thoms*. Salpeter *Kars*.

ii. NITRATE OF LIME. Nitrous selenite *K*, Chaux nitrée *H*, Nitre calcaire *Deborn*, Nitro calizo *Herrg*.

Nitrous selenite *K*, 89 ii.

Novaculite *K*, 138

Nuovas minas—129

90. OBSIDIAN. TABLES, XXV.

Obsidian *J*, *K*, Lave vitreuse obsidienne *H*, Obsidienne *B*, Iceland agate—

a. Marekanite *B*, Obsidienne de Marikan *Brong*.

OPA

Obsidienne perlée *Brong*. 92

Obsidienne de Marikan *Brong*. 90 *a*

Occhio de gatto *Petr*. 193 *b*

Occidental topaz *K*, 129

Ochre d'antimoine *B*, 8 iii.

Ochriger brauneisenstein *Kars*. 64 *v. g*

Ochriger rotheisenstein *Kars*. 64 *v. c*

Ochriger thoneisenstein *Kars*. 64 *v. b*

Ocre *Brong*. 21

Ocre de bismuth—19 iii.

Ocre martiale brun *Delisle*, 64 *v. g*

Ocre de nickel *B*, 87 iii.

Ocre d'uran *B*, 134 i. *a*

Ocro de hierro pardo *Herrg*. 64 *v. g*

Ocro de manganesa *Herrg*. 76 i. *b*

Octohedrite *J*, 128 i. *a*

Oculus mundi—91 *b*

Œil de chat *B*, 103 *g*

Oisanite *Méth*. 128 i. *a*

Oktaëdrit *w*, 128 i. *a*

Olive copper ore *K*, 38 *x*.

Olivin *w*, 93 *b*

Olivin ore *J*, 38 *x*.

Olivina *Nap*. 93 *b*

Olivinerz *w*, 38 *x*.

Ollaire *Méth*. 124 *c*

Olyntholite *Fischer*, 55 *d*

Ommailouros *Méth* 103 *g*

Oolite *B*, 25 *c*

91. OPAL. TABLES, XX.

a. PRECIOUS. Precious opal *J*, Opal *K*, Quarz résinite opalin *H*, Opale noble *B*, Opalo *Herrg*. Edler opal *w*.

b. HYDROPHANOUS. Quarz résinite hydrophane *H*, Halb opal *Kars*. Hydrophane *K*, Silex hydrophane *Brong*. Oculus mundi—Lapis mutabilis—

c. COMMON. Common opal *J*, Semi opal *K*, Quarz résinite commun *H*, Opale commune *B*, Gemeiner opal *w*.

i. Girasol *Delisle*, Opale bleuâtre *Méth*.

OPA

- d. BROWN. Quarz résinite subluissant n, Ménelit w, Leber opal *Kars*. Pestene de menil montant *Petr*.
- e. BLUE. Quarz resenite bleu grisâtre *Lucas*, Blau quarz of the Germans. See Siderite 48 e
- f. STALACTITICAL. Quarz agathe concretionné thermogène n, Hydrolite *Mackenzie*, Gemeiner kiesel-sinter *Kars*, Guhr siliceux *Klap*. Geycrite *Méth*. Kalzedon-artiger and Opalartiger kiesel-sinter *Haus*.
- i. Quarz hyalin concretionné n, Hyalite w, Fiorite *Thoms*. Perlartiger kiesel-sinter *Kars*. Calcedoine volcanique *Nonnull*, Müllers glass—
- Opal jasper J, 61 b
- Opale bleuâtre *Méth*. 91 ci.
- Opale commune v, 91 c
- Opale noble v, 91 a
- Opalartiger kiesel-sinter *Haus*. 91 f
- Opalescent felspar—48 c
- Opalo *Herrg*. 91 a
- Or n, v, 56
- Or argentale *Lucas*, 56 a
- Or blanc *Delisle*, 98
- Or blanc dendritique *Deborn*, 126 i.
- Or feuilleté *Méth*. 126 iii.
- Or graphique *Méth*. 126 ii.
- Oriental chrysolite—33
- Oriental garnet—55 a i.
- Oriental ruby, sapphire, and topaz—39 a
- Orniblanda basaltica—4 a
- Orobites—25 e i.
- Orpiment n, 12 iii.
- Orthose n, 48 a
- Osmium *Tennant*, 98
- Oviform limestone n, 25 c
- Oxide of antimony—8 iii.
- Oxide of arsenic—12 ii.
- Oxide of bismuth—19 iii.—*Deborn*, 134 i.
- Oxide of cobalt—37 ii.
- Oxide de cobalt rouge *Deborn*, 37 iii.

PER

- Oxide of copper—38 v.
- Oxide of iron—64 v.
- Oxide of lead—70 iii.
- Oxide of manganese—76 i.
- Oxide de mercure sul. rouge *Deborn*, 80 iii.
- Oxide of nickel—87 iii.
- Oxide of tin—127 i.
- Oxide of titanium—128 i.
- Oxide of uranium—134 i.
- Oxide of zinc—140 i.
- Oxide de zinc silicifère *Berth*. 140 i.

- PAGODITE *Brong*. 117 b
- Paläiopètre *Saus*. 48 f
- Palladium *Wollaston*, 98
- Paranthine n, 137 b
- Paulite w, 60
- Pea ore J, 64 v. l
- Pea stone J, 25 c i.
- Peach *Kidd*, 31
- Parret coal of Scotland—36 a ii.

92. PEARLSTONE. TABLES, XXIV.

- Pearlstone J, Perlaire, formerly Obsidienne perlée n, Perlstein w,
- a. Perlstein pumiciforme *Tondi*, Némate n.
- Pearlspar—25 n
- Pecherz w, 134 ii.
- Pecherz ferrugineux *Méth*. 64 vii. c
- Pechblend *Deborn*, 134 ii.
- Pechkohle w, 36 a i.
- Pechgranat *Kars*. 55 c
- Pechstein w, 97
- Pechuran *Haus*. 134 ii.
- Pederal *Herrg*. 50 a
- Pentaklasit *Haus*. 104
- Perfect corundum—39 a

93. PERIDOT. TABLES, LXIX.

- a. CRISTALLISED. Péridot n, Chrysolite J, Krysolith w, Crisolito nobile *Nap*.
- b. GRANULAR. Péridot granuli-

PER

forme n, Olivin J, w, Crisolito commune, o Olivina *Nap.*

Péridot altéré *Brard*, 73

Perlartiger kieselsinter *Kars.* 91 *fi.*

Perlaire n, 92

Perlmutter opal *Kars.* 24 *b*

Perlstein w, 92

Perlstein pumiciforme *Tondi*, 92 *a*

Pestene de menil montant *Petr.* 91 *d*

Pétalite *De Drée*, 71

Petalite *Andrada*, 48 *a*

Petrilite κ, 48 *a i.*

Petrol κ, 20 *a*

Pétrole compacte *Deborn*, 36 *a*

Petroselse commune *Petr.* 48 *f*

Petrosilex—50 *a i.*

Petrosilex *Mongez*, 48 *f*

Petrosilex *Deborn*, 24 *g*

Petrosilex résinite n, 97

Petunzé—48 *a ii.*

Pfeiffenthon w, 101 *a*

Pharmacolite *Kars.* 11

Pharmacochalzite *Leonhard*, 38 *x. a*

Phonolite n, 35

Phosphate of copper J, 38 *ix.*

94. PHOSPHATE OF LIME. VIII.

a. CRISTALLISED. Appatite J, Phosphorite κ, Chaux phos. cristallisée n, Appatite commune v, Apatit w, Moroxite *Kars.* Augustit *Reuss.*

b. GREEN *var.* Asparagus stone J, Chaux phos. chrysolite *Brong.* Apatito *Herrg.* Beril de Saxe—Amethyste basaltine *Sage*, Crisolito *Nap.*

c. EARTHY. Ch. phos. terreuse n, Phosphorit w, Erdiger phosphorit *Kars.* Terre de Marmarosch—

Phosphate of iron—64 *vii.*

Phosphate of lead—70 *v.*

Phosphate of manganese—76 *iv.*

Phosphor kupfererz w, 38 *ix.*

Phosphormangan—76 *iv.*

PIM

Phosphorated lead ore κ, 70 *v.*

Phosphorblei *gemeines Kars.* 70 *v.*

Phosphorit *erdiger Kars.* 94 *c*

Phosphorite κ, 94 *a*

Phtanite n, 103 *i*

95. PICOLITE. TABLES, CI.

A name given by Charpentier to a mineral from the Pyrenees, resembling Gadolinite, not yet analysed.

Picrite *Brong.* 25 *i*

Pictite—128 *ii.*

Piedra de acero *Herrg.* 64 *vi.*

Piedra de escribir *Herrg.* 99

Piedra malada *Herrg.* 79

Pierre d'Amazon *Deborn*, 48 *d*

Pierre des Amazons—48 *g i.*

Pierre calcaire grenue v, 25 *g*

Pierre calc. testacée v, 25 *d i.*

Pierre cruciforme v, 59

Pierre à corne v, 48 *g*

Pierre de corne infusible *Broch.*

24 *g*

Pierre de croix *Delisle*, 30

Pierre d'étain v, 127 *i.*

Pierre à fusil v, 50 *a*

Pierre grasse n, 137 *d*

Pierre de hache—48 *g ii.*

Pierre de Labrador v, 48 *c*

Pierre de miel v, 79

Pierre ollaire v, 124 *c*

Pierre à plâtre—120 *c*

Pierre pesante v, 139 *ii.*

Pierre de poix v, 97

Pierre de ponce v, 68 *b*

Pierre puante v, 25 *k i.*

Pierre de reins—48 *g i.*

Pierre à sculpture v, 117 *b*

Pierre sonnante v, 35

Pierre de thum v, 15

Pierre de Tonnère—82

Pierre de tripes—120 *c*

Pietra avanturina *Petr.* 103 *k*

Pietra epatica *Petr.* 16 *a iv.*

Pimelite—87 *iii.*

96. PINITE. TABLES, LXXII.

Micarelle *K*, Pinite *H*, Pinit *w*,
Fuscite *Schumacher*.

Piomo—70

Pipe clay *J*, 101 *a*

Pirita de azufre *Herrg.* 64 *iv*.

Pirita hepatica *Herrg.* 64 *iv. a*

Pirita venenosa *Herrg.* 12 *iv*.

Pirite gialla *Petr.* 38 *iii*.

Pisolithe *B*, 25 *e* 1

Pissasphalte *Daub.* 20 *b*

Pissite *Méth.* 97

Pistazite *J*, *w*, 46 *a*

Pitch coal *J*, 36 *a* *i*,

Pitch ore—134 *ii*.

97. PITCHSTONE. TABLES, XXIII.

Pitchstone *J*, *K*, Feldspath rési-
nite *H*, Pierre de poix *B*, Ré-
tinite *Brong.* Pissite *Méth.* De-
odalite *Rose*, Pechstein *w*, Pyra-
phrolith *Haus*.

Pitchy iron ore *J*, 64 *vii. c*—76 *iv*

Pittizit *Haus*. 64 *vi. c*

Plasma *J*, *B*, 103 *d*

Plasma de zaffiro *Nap.* 103 *c*

Plaster of Paris—120 *c*

Plata—108

Plata acrata *Herrg.* 108 *v*.

Plata cornea *Herrg.* 108 *vi*.

Plata nativa *Herrg.* 108 *i*.

Plata nat. antimonial *Herrg.* 108 *ii*.

Plata nat. arsenical *Herrg.* 108 *ii. a*

98. PLATINA. TABLES, CXVIII.

Platina *J*, *K*, Platino *Petr.*

Or blanc *Delisle*, Platine na-
tif ferrifère *H*, Gediengen pla-
tin *w*.

The crude ore of Platina, as
imported from South America,
is a compound of a variety of
metals; besides Platina, and the
new metals Osmium, Iridium,
Rhodium, and Palladium, it is

usually combined with Gold Mer-
cury and Iron. According to
Proust, Gold to the amount of
13 per cent. is sometimes ob-
tained from it.

Osmium and Iridium were first
separated from Platina by Four-
croy and Vauquelin, and to the
substance thus obtained, they
gave the name of Ptène. Ten-
nant subsequently discovered
that this supposed new metal
was a compound of two, to which
he gave the above names. Rho-
dium and Palladium were still
more recently discovered by Dr
Wollaston.

None of these four new me-
tals have yet obtained a place
in any system; but are particu-
larly noticed in Bournon's
catalogue. He mentions that
he is possessed of Native Palla-
dium, as well as separate cris-
tals, composed of Iridium and
Osmium.

Pléonaste *H*, 112 *a*

Plomb—70

Plomb arseniaté—70 *v. b*

Plomb arsenié—70 *vi*.

Plomb blanc *B*, 70 *iv*.

Plomb bleu *B*, 70 *v. a*

Plomb carbonaté *H*, 70 *iv*.

Plomb carb. noire *H*, 70 *iv. a*

Plomb chromaté *H*, 70 *vii*.

Plomb chromé *Bournon*, *H*, 70 *vii. a*

Plomb jaune *B*, 70 *viii*.

Plomb molybdaté *H*, 70 *viii*.

Plomb muriaté *B*, 70 *x*.

Plomb natif volcanique *H*, 70 *i*.

Plomb oxydé *H*, 70 *iii*.

Plomb ox. rouge *Lucas*, 70 *iii. a*

Plomb phosphaté *H*, 70 *v*.

Plomb phos. arsenifère *H*, 70 *v. b*

Plomb rouge *B*, 70 *vii*.

Plomb spatique rouge *Pallas*, 70 *vii*.

Plomb sulfaté *H*, 70 *ix*.

Plomb sulfuré *h*, 70 ii.
 Plomb sul. antimonifère *h*, 70 ii. *c*
 Plomb sul. ant. et argentifère *h*,
 70 ii. *d*
 Plomb sul. compacte *h*, 70 ii. *a*
 Plomb sul. épigène—70 v. *a*
 Plomb sul. spéculaire *h*, 70 ii. *b*
 Plomb terreux *h*, 70 iii.
 Plomb vert *h*, 70 v.
 Plombagine *Delisle*, 99
 Plombagine charbonneuse *Deborn*,
 7 *a*

99. PLUMBAGO. TABLES, CXVII.

Graphit *J*, *h*, *w*, Graphite, formerly Fer carburé, *h*, Piedra de escribir *Herrg.* Carbone oxydulé ferruginé *Tondi*, Carbon, combined with 1-10th iron, *h*, Black wad *vulg.* Plombagine *Delisle*.

Plomo amarillo *Herrg.* 70 viii.
 Plomo de agua *Herrg.* 84
 Plomo blanco *Herrg.* 70 iv.
 Plomo negro *Herrg.* 70 iv. *a*
 Plomo roxo espatico *Herrg.* 70 vii.
 Plumbum—70
 Plumose antimony—8 ii. *a*
 Poix minérale *Delisle*, 20 *b*
 Poix min. élastique *h*, 20 *c*
 Poix min. scoriacée *h*, 20 *d*
 Polierschiefer *w*, 100
 Polierschiefer *h*, 1

100. POLISHING SLATE. CII.

Polishing slate *J*, Polierschiefer *w*, Tripoli schisteux *Tondi*, Thermantide Tripoléenne *h*.

Ponderous spar—16 *a*
 Porcellaine clay *J*, 48 *h*
 Porcellaine jasper *J*, 61 *c*
 Porcellanite *h*, 61 *c*
 Porzellan jaspis *w*, 61 *c*
 Porzellanerde—48 *h*
 Potasse nitrée *h*, 89
 Potstone *J*, *h*, 124 *c*

101. POTTERS CLAY. LXXXVI.

Potters clay *J*, *h*, Argile glaise *h*, Argile à potier *h*, Argile plastique *Brong.* Argile commune *Deborn*, Töpferthon *w*.

a. Pipe clay *J*, Argile à pipe *h*, Pfeiffenthon *w*.
b. Indurated clay *h*, Argillolite *Brong.* Verhäteteter thon *w*.
d. Argile legere *Brong.* Talc pulverulent silicifère—Farin fossile *Fabroni*—Farine volcanique *Méth.* Bergmehl *Kars.*—Sp. gr. sometimes so low as .262, of this *Fabroni* constructed bricks which floated in water.

Prase *Delisle*, 24 *f*
 Prase *J*, *h*, 103 *d*
 Prase cristallisée *Hacquet*, 102
 Prasem *h*, 103 *d*
 Prasio *Petr.* 24 *f*
 Prassium *w*, 103 *d*
 Precious beryll *J*, 45 *b*
 Precious garnet *J*, 55 *a*
 Precious opal *J*, 91 *a*
 Precious serpentine *J*, 106 *a*

102. PREHNITE. TABLES, LXV.

Prehnite *J*, *h*, *h*, *h*, *w*, Bostrichites of Walker *Brong.*

Lamellated var. Koupholite *h*, Prehnite koupholite *Brong.* Foliated prehnite *J*.

The Fan shaped var. of Dauphiné, Schorl en gerbes *Schreiber*, Prehnite conchoïde *h*.

Emeraude du Cap *Roche*, Chrysolite du Cap *Sage*, Prase cristallisée *Hacquet*, Halb zeolith *Estner*, were the names given to this fossil when first imported from the Cape by Captain Prehn.

Prehnite chonchoïde *h*.
 Prehnite koupholite *Brong.* 102

Primitive limestone—25 *g*
 Prismatic heavy spar *J*, 16 *a* ii.
 Prismatischer zeolith *Kars.* 81
 Prussiate de fer natif *Deborn*, 64
 vii. *a*
 Pseudo aventurine quartzeuse *Deborn*, 103 *k*
 Pseudo népheline ou Pseudo sommite *Bellevue*, 110 *a*
 Pseudo quartz—103 *o*
 Ptène—98
 Pumice *J*, *k*, 68 *b*
 Punamu néphrite *Reuss.* 48 *g* ii.
 Pure clay *J*, 2
 Purette—128 *i. c*
 Purple copper ore *k*, 38 iii. *a*
 Purple quartz—103 *b*
 Pycnite *n*, 129 *ap. i.*
 Pyraphrolith *Haus.* 97
 Pyrenait *w*, 55 *c*
 Pyrite d'argent *Bomare*, 12 *iv.*
 Pyrite arsenicale *b*, 12 *iv.*
 Pyrite arsenicale argentifère *n*, 12 *iv.*
 Pyrite brune martiale *Bom.* 64 *iv. a*
 Pyrite capillaire *b*, 87 *i.*
 Pyrite cuivreuse *b*, 38 iii.
 Pyrite hépatique *b*, 64 *iv. a*
 Pyrite sulfurée épigène *n*, 64 *iv. a*
 Pyrodmalith *Haus.* 64 *x.*
 Pyrope *J*, *w*, 55 *a. i.*
 Pyrophysalite *His.* 129 *ap. ii.*
 Pyromorphit *Haus.* 70 *v.*
 Pyroxène *n*, 14 *a*
 Pyroxène coccolithe *Brong.* 14 *b*
 Pyroxène granuliforme *b*, 14 *b*
 Pyroxène en roche *Charp.* 14 *c*

103. QUARTZ. TABLES, XVIII.

- a.* CRISTALLISED. Rock cristal *J*,
 Mountain cristal *k*, Quarz hyalin
 limpide *n*, Berg krystal *w*, Quarzo
Herrg. Cristal de roche *b.*
b. PURPLE. Amethyst *J*, *k*, *w*, *b*,
 Quarz violet *n*, Violetto o ame-
 tista *Nap.*
c. BLUE. Quarz bleu *n*, Quarz

hyalin saphirine *Mong.* Plasma
 di Zaffiro *Nap.* False saphire.

Dichroite, according to *Bour-
 non*, is Blue quartz.

- d.* GREEN. Quartz agathe calce-
 doine vert obscure *n*, Prase *J*,
 Prassium *k*, Prasem *w*.

Plasma *J*, *b*, *w*.

- e.* YELLOW. Quarz jaune enfumé *n*,
 Topaz de Boheme—Smokey To-
 paz—Scotch Topaz—Quarz ce-
 trino *Nap.*

- f.* ROSE. Milk quartz *J*, Rosy red
 quartz *k*, Quarz laiteux *Delisle*,
 Quartz rose *b*, Milch quarz *w*.

Rubase, a name given to quartz
 cristals, which have been made
 red-hot and thrown into a met-
 tallic solution, to give them a
 mottled red colour and a fractur-
 ed appearance *Brong.*

- g.* RESPLENDENT. Cats eye *J*, Quarz
 agathe chatoyant *n*, Œil de chat *b*,
 Ommailouros ou Œil de chat,
 agathine chatoyante *Méth.* Quarz
 hyalin amianté *Cordier*, Occhio
 de gatto *Petr.* Katzenauge *w*,
 Schiller quarz *Kars.*

- h.* HEMATITIC. Quarz hyalin hema-
 toïde *n*, Hyacinth de Compostello
 —Iron flint *J*, Eisenkiesel *w*, Si-
 nople *k*, Quarz rubigineux sinople
Brong.

- i.* FLINTY SLATE. Flint slate *J*,
 Siliceous schistus *k*, Lydian-
 stone *J*, Basanite *k*, Lidischer-
 stein *w*, Quarz argillifère shis-
 toïde ou Phtanite *n*, Quarz aga-
 the schistoïde *Lucas.* Lydienne
Méth. Lapis lydius *Wall.* Touch-
 stone *Kidd.* Kieselschiefer *w*.

- k.* SCALY. Quarz aventuriné *n*,
 Aventurine *b*, Pseudo aventu-
 rine quartzeuse *Méth.* Pietra a-
 vanturina *Petr.*

- l.* GRANULAR. Sandstone *J*, Quarz
 arénacé agglutiné *n*, Gres *b*.

- i.* Cantalite *Kars.* Quarz hyalin

QUA

- granulaire jaune verdâtre n,
Fossile vert *Leonhard*, Grûnes
fossil—
ii. Elastic quartz.—Grés élas-
tique B, Grés flexible *Brong.*
m. FIBROUS. Fibrous quartz K,
Dick faseriger amethyst w, Faser
quarz *Kars.*
n. AMORPHOUS. Amorphous quartz
K, Quartz commun B, Quartz in-
forme *Deborn*, Gemeinerquarz w.
i. Cellular quartz J, Quarz a-
gathe mollaïre n, Quarz carié
Delisle, Silix meulière cellulaire
Brong. Molarite *Méth.* Bhur
stone of France—
o. PSEUDO QUARTZ. The casts or
after cristals of Fluor or Calca-
reous spar which occur at Bere
Alston, &c.
Quartz rose B, 103 f
Quartzose carbonate of lime—25 m
Quarz agathe cachalong n, 24 b
Quarz ag. calcedoine n, 24 a
Quarz ag. calcedoine vert obscure n,
103 d
Quarz ag. calcifère n, 25 m i.
Quarz ag. chatoyant—103 g
Quarz ag. concretionné thermogène
n, 91 f
Quarz ag. cornaline n, 24 c
Quarz ag. dendritique—24 d
Quarz ag. grossier n, 24 g
Quarz ag. mollaïre n, 103 n i.
Quarz ag. onyx n, 24 d
Quarz ag. onyx opaque n, 50 c
Quarz ag. panaché n, 24 d
Quarz ag. ponctué n, 24 e
Quarz ag. prase n, 24 f
Quarz ag. pyromaque n, 50 a
Quarz ag. sardoine n, 24 d
Quarz ag. schistoïde *Lucas*, 103 i.
Quarz arénacé agglutiné n, 103 l
Quarz argillifère schistoïde n, 103 i
Quarz aventuriné n, 103 k
Quarz bleu n, 103 c
Quarz carié *Delisle*, 103 n i.

RED

- Quarz citrino *Nap.* 103 e
Quarz commun B, 103 n
Quarz cubique—75 c
Quarz en stalactite *Delisle*, 24 a
Quarz hyalin amianté *Cordier*, 103 g
Quarz hyalin concretionné n, 91 f i.
Quarz hyalin granulaire jaune ver-
dâtre n, 103 l i.
Quarz hyalin hématoïde n, 103 h
Quarz hyalin limpide n, 103 a
Quarz hyalin saphirine n, 103 c
Quarz informe *Deborn*, 103 n
Quarz jaspe n, 61
Quarz jaune enfumé n, 103 c
Quarz laiteux *Delisle*, 103 f
Quarz nectique—50 b
Quarz résinite opaline n, 91 a
Quarz résinite bleu grisâtre *Lucas*,
91 c
Quarz résinite commun n, 91 c
Quarz résinite hydrophane n, 91 b
Quarz résinite opalin n, 91 a
Quarz résinite subluisant n, 91 d
Quarz rubigineux sinople *Brong.*
103 h
Quarz violet n, 103 b
Quarzo *Herrg.* 103 a
Quicksilber—80 iv.
Quicksilber *gediegen* w, 80 i.
Quicksilber *lebererz* w, 80 iii. b
Quicksilver horn ore J, 80 iv.
Quicksilver liver ore J, 80 iii. b
RADIATED barytes—16 a iii
Radiated zeolite J, 81
Rame nativo *Petr.* 38 i.
Rapidolite *Abild.* 137 b
Rauschgelb w, 12 iii.
Rautenspath w, 25 l
Rayonnante en goutiers—128 ii. a
Rayonnante vitreuse B, 46 a
Realgar—12 iii.
Red antimonial ore K, 8 iv.
Red antimony J, 8 iv.
Red chalk J, 64 v. b

RED

Red copper ore J, 38 v.
 Red hematite—64 v.
 Red iron froth J, 64 v. c
 Red lead ore K, 70 vii.
 Red lead spar J, 70 vii.
 Red ochre K, 64 v. e
 Red ore of manganese K, 76 ii.
 Red oxide of iron—64 v.
 Red scaly iron ore J, 64 v. c
 Red schorl—128 i.
 Red silver ore J, K, 10
 Red tourmaline—130 d
 Red vitriol—122 i
 Reddle J, 64 v.
 Reinetalkerde w, 75 b
 Reinethonerde w, 2 a
 Resplendent felspar—84 b
 Resplendent quartz—103 g
 Rétinite Brong. 97
 Reussin—122 c
 Rhodium Wollaston, 98
 Rhomb spar J, 25 l
 Ribband agate J, 24 d
 Roche serpentineuse B, 106 b
 Rock butter J, 122 d ii.
 Rock cork J, 13 e
 Rock cristal J, 103 e
 Rock salt J, 85 b
 Rock milk J, 25 f i.
 Rock wood J, 13 d
 Röthel w, 68 v. b
 Roestone J, 25 e
 Rogenstein w, 25 e
 Rose quartz—103 f
 Rosy red quartz K, 103 f
 Rowley rag K, 17
 Rothgültigerz—108 iii.
 Rotheisenstein schuppiger Kars. 64 v. c
 Röschgewächs of Hungary—108 iii. a
 Roubtschite Méth. 75 b
 Rubase—103 f
 Rubellite K, 130 d
 Ruby spinel—112
 Ruthile B, 128 i.
 Rutil w, 128 i.
 Rutile J, 128 i.

SCH

104. SAHLITE. TABLES, LIII.

Sahlite w, Malacolithe Abild. Sahlait Haus. var. de Pyroxène H.
 Alalite and Mussite Bonvoisin,
 Diopside Brong.—var. de Pyroxène H, Pentaklasit Haus.

Sagenite Saus. 128 i. b
 Sal ammoniac J, K, 85 c
 Sal de los Alpes Herrg. 122 c
 Sal gemme K, 85 b
 Sal milagrosa nativa Herrg. 122 c
 Sалаit Haus. 104
 Saline marble—25 g
 Salmiak Kars. 85 b
 Salpeter Kars. 89
 Sandarac Deborn, 12 iii.
 Sandstone J, 103 l
 Sandstone cristallised—25 m
 Sanidin Nose, 48 a ii.
 Salzkupfer K, 38 viii.
 Salzsäure w, 85 a
 Sanguine Deborn, 64 v. b
 Saphir w, 39 a
 Saphirin Nose, 66
 Saphirine quartz hyalin Brong. 103 c

105. SAPPARE. TABLES, LXXV.

Cyanite J, B, Disthène, c'est à dire qui a deux forces H, Talc bleu et Beril feuilleté Sage, Schorl bleu Méth. Sorlo ceruleo Petr.
 Kyanite w.

Sapphire J, 39 a
 Sappira—39 a
 Sassolin Kars. 22 a
 Sarcolite Thomson, 5 b
 Sard, Sardoine, Sardonix—24 c
 Satin spar—25 c
 Saturn of the Alchimists—70
 Säulenspath w, 16 a i.
 Saussurit Kars. 48 g
 Scaly quartz—103 k
 Scaly talc—124 d
 Scapolite Andrada, 137 b
 Schaalstein w, 25 d i.
 Schaalstone J, 25 d i.

Schabasit w, 29
 Schaumerde w, 25 d ii.
 Scheel w, 139
 Scheelerz *Kars.* 139 ii.
 Scheelin n, 139
 Scheelin calcaire n, 139 ii.
 Scheelin ferruginé n, 139 i.
 Schieferkohle w, 36 b
 Schieferspath w, 25 d
 Schiefrige glanz kohle w, 7 b
 Schiller quarz *Kars.* 103 g
 Schillerspar—60
 Schillerstein w, 41 b
 Schillerstone j, 41 b
 Schisolith *Haus.* 83
 Schiste à aiguiser n, 138
 Schiste à dessiner n, 44
 Schiste happant *Tondi.* 1
 Schiste marno bitumineux n, 25 k
 Schiste à polir n, 1
 Schisto chloritico—31 a
 Schisto spato *Nap.* 25 d
 Schlackiger anthracit *Kars.* 7 c
 Schmaragd w, 45 a
 Schmelzstein w, 43
 Schmirgel w, 39 c
 Schorl n, 130
 Schorl blanc hexagonal du Vesuve
Ferber. 110
 Schorl blanc prismatique *Delisle,*
 129 ap. i.
 Schorl bleu—128 i. a
 Schorl bleu *Méth.* 105
 Schorl bleu de Sibirie *Macq.* 64 vii.
 Schorl cruciforme *Delisle.* 116
 Schorl *electrischer* w, 130 b
 Schorl *edler* *Kars.* 130 b
 Schorl en gerbes *Schreiber.* 102
 Schorl noir n, 130 a
 Schorl octaèdre—128 i. a
 Schorl pourpre de Madagascar—
 128 i.
 Schorl rouge de Hongrie *Deb.* 128 i.
 Schorl spatheux—115
 Schorl transp. lenticulaire *Del.* 15
 Schorl vert du Vesuve *Non.* 135
 Schorl vert du Zillerthal *Méth.* 4 b
 Schorl violet *Mongez.* 15

Schorlartiger beril w, 129 ap. i.
 Schorlartiger topaz *Benhardi.* 129
 ap. i.
 Schorlit *Klap.* 129 ap. i.
 Schriftez w, 126 ii.
 Schütztit *Reuss.* 119 a
 Schwarz manganerz *verhüttetes*
Kars. 76 i. b
 Schwarz uranerz *Emm.* 134 ii.
 Schwefel w, 121
 Schwefelkies w, 64 iv.
 Schwerspath w, 16 a
 Schwerstein w, 139 ii.
 Schwimmender asbest *Kars.* 13 c
 Schwimmkiesel *Haus.* 50 b
 Schwimmstein *Kars.* 50 b
 Scotch topaz—103 c
 Sel admirable *Glauber.* 122 c
 Sel amer natif—122 c
 Sel ammoniac natif n, 85 c
 Sel capillaire n, 122 e i.
 Sel sedatif *Homb.* 22 a
 Sel secret de *Glauber.* 122 b
 Sel de cuisine n, 85 ii.
 Selce *Petr.* 50 a
 Selce d'Egitto *Nap.* 50 c
 Selenite j, n, 120
 Sémeline—128 ii.
 Semi indurated steatites n, 124 d
 Semi opal—91 c

106. SERPENTINE. TAB. LXXXI.

- a. PRECIOUS. Precious serpentine j,
 Serpentine noble n, Edler ser-
 pentin w, Verde di Prato, Verde
 di Suza, &c.
 b. COMMON. Common serpentin j,
 Roche serpentineuse n, Serpen-
 tin w.

Serpentin ollaire *Brong.* 124 c
 Siberite j, 130 d
 Sidérite *Moll.* 48 c—91 c
 Sidero calcite n, 25 n

107. SIDEROCLEPTE. TAB. CIII.

A mineral found at Limbourg
 in the Porphyritic basalt by
 Saussure.

Silber *arsenic Kars.* 108 ii. *a*
 Silber *gediegen w.* 108 i.
 Silberschwarze of the Germans—
 108 iii. *b*
 Silex agathe *Brong.* 24 *a*
 Silex cacholong *Brong.* 24 *b*
 Silex calcedoine *Brong.* 24 *a*
 Silex cornaline *Brong.* 24 *c*
 Silex corné *Brong.* 24 *g*—48 *g*
 Silex hydrophane *Brong.* 91 *b*
 Silex meulière cellulaire *Brong.*
 103 *n i.*
 Silex silicicalce *Brong.* 25 *m i.*
 Silice fluatée alumineuse *H.* 129
 Siliceo calcareous titanium—128 ii.
 Siliceous schistus *K.* 103 i.

108. SILVER. TABLES, CXX.

ARGENT *Fr.* ARGENTUM *Lat.*
 SILBER *Ger.* PLATA *Span.*

- i. NATIVE. Native silver *J.* *K.*
 Argent natif *H.* Argent vierge
Delisle. Plata nativa *Herrg.* Ge-
 diegen silber *w.*
a. Goldish native silver *J.* Ar-
 gent natif aurifère *H.*
- ii. ANTIMONIAL. Antimonial sil-
 ver *J.* Antimoniated native sil-
 ver *K.* Argent antimonial *H.* *B.*
 Spiesglas silber *w.* Mine d'ar-
 gent antimoniale *Daub.* Plata nat.
 antimonial *Herrg.*
a. Argent ant. ferro arseni-
 fère *H.* Arsenical silver ore *J.*
 Arsenicated native silver *K.* Ar-
 gent arsenical *B.* Arsenik silber *w.*
 Silber arsenik *Kars.* Plata nat.
 arsenical *Herrg.*
- iii. SULPHURATED ANTIMONIAL. Red
 Silver ore *J.* *K.* Argent antimonie
 sulfuré *H.* Argent rouge *B.* Roth
 gültigerz *w.* Mina de Plata roxa
Herrg.
a. Brittle silver glance *J.* Ar-
 gent antimonie sulfuré noir *H.*
 Argent noir *Méth.* Argent vi-
 treux aigre *B.* Sprödglasserz *w.*

Sprödglanzerz *Kars.* Rösche-
 wächs of Hungary—Mina de
 Plata negra *Herrg.*

- b.* Sooty silver ore *J.* Silver
 black *K.* Argent noir *B.* Silber-
 schwarze of the Germans.
 - iv. SULPHURATED. Silver glance *J.*
 Sulphurated silver ore *K.* Argent
 sulfuré *H.* Glasserz *w.* Glanzerz
Kars. Argent vitreux *B.* Mina de
 Plata vidriosa *Herrg.* Vitreous
 silver—
 - v. CARBONATE. Calciforme silver
 ore *K.* Argent carbonaté *H.* Luft-
 saures silber *Wid.* Plata aerata
Herrg.
 - vi. MURIATE. Horn ore *J.* Corne-
 ous silver ore *K.* Argent muri-
 até *H.* Argent corné *B.* Plata cor-
 nea *Herrg.* Hornerz *w.*
a. Earthy. Argent mur. ter-
 reux *H.* Buttermilcherz *w.*
- Silver black *K.* 108 iii. *b*
 Silver glance *J.* 108 iv.
 Silverish arsenical pyrites *J.* 12 iv.
 Sinople *K.* 103 *h*
 Skorza—46 *b*
 Slaggy mineral pitch *J.* 20 *d*
 Slate coal *J.* 36 *b*
 Slate spar *J.* 25 *d*
 Slaty chlorite *J.* 31
 Slaty glance coal *J.* 7 *b*
 Slickensides—70 ii. *b*
 Smaragd glatter *Kars.* 45
 Smaragd gestrichter *Kars.* 45 *b*
 Smaragdit *Kars.* 41 *a*
 Smaragdus *Wall.* 45
 Smeraldo *Nap.* 45 *a*
 Smeriglio *Petr.* 39 *c*
 Smokey topaz—103 *c*
 Soap rock—117
 Sodait *Ekeberg.* 137 *d*

109. SODALITE. TABLES, XLIII.

Sodalite *Thomson.* A mineral
 found by Mr Giesecké in Green-
 land, imbedded between Gneiss
 and Mica slate.

SOM

SPI

110. SOMMITE. TABLES, LXVII.

Sommeite J, Népheline H, B, W,
Schorl blanc hexagonal du Ve-
suve *Ferber*.

a. Pseudo sommite or Pseudo
népheline de Bellevue, is accord-
ing to De la Métherie a var. of
Sommitte.

Solid bitumen—20 d

Solpho *Petr*. 121

Sooty silver ore K, 108 iii. b

Sorlo ceruleo *Petr*. 105

Sorlo nero *Nap*. 130 a

Soude blanche d'Egypte *Delisle*,
26 b

Soude boratée H, 22 b

Soude carbonatée H, 26 b

Soude muriatée H, 85 b

Soude muriatée gypsifère *Brong*.
85 b

Soude sulfatée H, 122 c

Soufre H, B, 121

Sparry iron ore K, 64 vi.

Sparry iron stone J, 64 vi.

Spath adamantin B, 39 b

Spath de Boulogne B, 16 a iii.

Spath brunissant B, 25 n

Spath calcaire B, 25 a

Spath chatoyant B, 41 b

Spath composé *Woulfe*, 25 l

Spath cubique—120 c

Spath eisenstein w, 64 vi.

Spath étincillant *Daub*. 48 c

Spath fluor w, 51 a

Spath fusible *Bucquet*, 16 a

Spath fusible d'*Arct*, 48 a

Spath fusible *Delisle*, 51 a

111. SPATH DE GLACE. TAB. CIV.

Spath de Glace *De Drée*, Eis-
spath *Werner*. A substance
from Vesuvius, mixed with Som-
mit, possibly Karsten's Glas-
siger feldspath in thin La-
minæ.

Spath pesant B, 16 a

Spath pesant en barres B, 16 a ii.

Spath pesant vert *Sage*, 134 i.

Spath schisteux B, 25 d

Spath séléniteux de Sicile *Del*. 119

Spath en tables *Bfong*. 123

Spath de zinc *Delisle*, 140 i.

Späthiger galmei *Kars*. 140 i.

Spatho adamantino *Nap*. 39 b

Spatho sedativo *Nap*. 75 c

Speckstein w, 117

Specular iron ore K, 64 iii.

Sphen *gemeiner Kars*. 128 ii.

Sphène H, 128 ii. a

Spiesganz blei *Kars*. 70 ii. c

Spiesglas *gediegen* w, 8 i.

Spiesglas okker w, 8 iii.

Spiesglas silber w, 108 ii.

Spiesglaserz *grau* w, 8 ii.

Spiesglaserz *roth* w, 8 iv.

Spiesglaserz *weiss* w, 8 iii.

Spieskobolt *grauer* w, 37 i. a

Spieskobolt *weisser* w, 37 i.

112. SPINELL. TABLES, XXXIV.

Spinelle J, H, B, Spinel w, Balas
ruby, from Balachan the Persian
name of Pegu *Kidd*—Ruby spi-
nel—Malabar name Bacham.

a. Spinelle pléonaste *Brong*. Plé-
onaste *c'est à dire* qui sura-
bonde H, Spinelle noir *Lucas*,
Ceilanite *Reuss*. Zeylonite w,
Ceylonite J.

Humite, is a substance men-
tioned by Bournon, which occurs
among the ejected rocks of Monte
Somma, and presents a cristal-
lisation apparently belonging to
the Octohedron; it is of a cin-
nmon colour, very shining and
transparent.

b. Spinelle zincifère H, Corindon
zincifère *Hisinger*, Automolite
Ekeberg, Gahnite *Brong*. Fah-
lunit *Kars*.

113. SPINELLANE. TABLES, CV.

A mineral from the borders of the Laach, so named by Nose from its affinity to Spinel.

Spinelle noir *Lucas*, 112 *a*
Spinelle pléonaste *Brong.* 112 *a*
Spinelle zincifère *n.*, 112 *b*
Spinelline *Nose*, 128 ii. *b*

114. SPINTHERE. TABLES, CVI.

A mineral from Marromme dep. d'Isère, supposed by De la Métherie to be a variety of Sphène.

115. SPODUMENE. TABLES, XLV.

Triphane *c'est à dire* apparent dans trois sens *n.*, Spodumene *Andrada*, Schorl spatheux et zeolite de Suède—

Spiritus lethalis *des anc.* 26 *c*
Spiritus sylvestris *Van Helmont*, 26 *c*
Sprödglasserz *w.*, 108 iii. *a*
Sprödglanzerz *Kars.* 108 iii. *a*
Stagno *Petr.* 127
Stagno bruna o nera *Petr.* 127 *i.*
Stalactite globuleuse *Deborn*, 25 *c i.*
Stalactitical carbonate of lime—25 *b*
Stängenkalk *Schum.* 10 *a*
Stängenkohle *w.*, 36 *c ii.*
Stangenspath *w.*, 16 *a ii.*
Stangenspath *Reuss.* 129 *ap. i.*
Stannum—127
Stanzait *Flurl*, 6
Statuary marble—25 *g*
Stauro-baryte—59
Stauroelite *κ*, 59

116. STAUROTIDE. TABLES, LIV.

Grenatite *J, B.*, Staurotide *c'est à dire* Croisette *n.*, Staurolith *w.*, Granatite *Reuss.* Schorl cruciforme *Delisle*, Croisette *Daub.*

117. STEATITE. TABLES, LXXX.

a. Steatite *J, B, n.*, Steatites *κ*, Speckstein *w.*, Craie d'Espagne *Delisle*, Esteatita *Herrg.* Soap rock—
b. Figure stone *J*, Talc glaphique *ap. n.*, Pierre à sculpture *n.*, Agalmatholite *Klap.* Stéatite pagodite *Brong.* Bildstein *w.*, Lardite *Petr.* Koreite *Méth.*

Steatite compatto *Nap.* 124 *d*
Stéatite lamelleuse *Daub.* 124 *b*
Stéatite pagodite *Brong.* 117 *a*
Steatite schistosa *Nap.* 124 *d*
Steel native—64 *i. b*
Steelstone—64 *vi.*
Steinsalz *w.*, 85 *b*
Steinmark *w.*, 74
Stephanstein—24 *e*
Stibium—8

118. STILBITE. TABLES, LXII.

Foliated zeolite *J*, Stilbite *c'est à dire*, corps qui a un certain éclat *n.*, Zeolithe lamelleuse *n.*, Strahlzeolith and Blätterzeolith *w.*, Stilbit *Kars.*
a. Stilbite orangée *Brong.* Zeolithe rouge du Tyrol *Faujas*, Fassait *Lenz.*

Stinkstone *J*, 25 *k i.*
Strahlstein *w.*, 4 *b*
Strahlstein asbestartiger *w.*, 4 *c*
Strahlstein körniger *w.*, 41 *a*
Strahlzeolith *w.*, 118
Strahliger scapolite *Kars.* 137 *c*
Stralite commune *Nap.* 4 *b*
Stralite vitriosa *Nap.* 46 *a*
Striated barytes *κ*, 16 *a iii.*
Strontiane *J*, 119 *b*
Strontianite *κ*, 119 *b*

119. STRONTITES. TABLES, XV.

a. SULPHATE. Celestine *J, B, w.*, Strontiane sulfatée *n.*, Spath seleni-

teux de Sicile *Delisle*, Schützit *Reuss*.

- b.* CARBONATE. Carbonate of strontites *Hope*, Strontiane *J*, Strontianite *K*, Strontiane carbonatée *H*.

The acicular var. from Braunsdorf in Saxony was long mistaken at Freyberg for Arragonite.

- Suber montanum *K*, 13 *c*
Succin *H*, *B*, 3
Succin cristallisé *Dehorn*, 79
Succin noir—36 *a*
Succinite *Bonvoisin*, 55 *a*
Sulfure de manganèse *Proust*, 76 iii.
Sulphate of alumine—122 *d*
Sulphate of ammonia—122 *b*
Sulphate of barytes—16 *a*
Sulphate of cobalt—122 *i*
Sulphate of copper—122 *g*
Sulphate of iron—122 *f*
Sulphate of lead—70 ix.

120. SULPHATE OF LIME. TAB. X.

- a.* CRISTALLISED. Selenite *J*, Chaux sulfatée cristallisée *H*, Broad foliated gypsum *K*, Frauenis *w*, Späthiger gips *Kars*. Vitrum Muscoviticum *Kidd*, being according to Pallas used in place of glass on the banks of the Wolga—Yeso cristallizado *Herrg*.
b. FIBROUS. Chaux sulfatée fibreuse *H*, Fibrous gypsum *J*, *K*, Gesso fibroso *Nap*. Yeso fibroso *Herrg*. Faseriger gips *w*.
c. COMPACT. Compact gypsum *J*, Chaux sulfatée compacte *H*, Gypse compacte *H*, Alabastrite *Méth*. Dichter gyps *w*, Gesso compatto alabastrino *Nap*.
d. EARTH. Gyps earth *J*, Farinaceous gypsum *K*, Chaux sulfatée niviforme *H*, Gypse terreux *B*,

Gipserde *w*, Farine fossile *Brong*. Guhr gypseux *Delisle*, Vulpinite—

- e.* ANHYDROUS. Cube spar *J*, Chaux anhydro sulfatée *H*, Muriacit *Klap*. Chaux sulfatine *Brong*. Bardiglione *Bourn*. Spath cubique *B*, Karstenit *Haus*. Laminated var. Würfelspath, Lamellar var. Anhydrit *w*. The blue compact var. according to Haiüy is the Celestine of the Germans—Botrioidal var. Pierre de Trippes—Gekröstein of the Polish miners.

- Sulphate of magnesia—122
Sulphate of soda—122 *c*
Sulphate of strontites—119 *a*
Sulphate of zinc—122 *h*

121. SULPHUR. TABLES, CXI.

Sulphur *J*, *K*, Soufre *H*, *B*, Schwefel *w*, Solpho *Petr*. Azufre nativo *Herrg*. Brimstone—

- Sulphurated silver ore *K*, 108 iv.
Sulphurated antimonial silver—108 iii.
Sulphurated antimony *K*, 8 ii.
Sulphurated ox. of antimony—8 iv.
Sulphurated uranite *K*, 134 ii.
Sulphuret of antimony—8 ii.
Sulphuret of arsenic—12 iii.
Sulphuret of bismuth—19 ii.
Sulphuret of lead—70 ii.
Sulphuret of manganese—76 iii.
Sulphuret of mercury—80 iii.
Sulphuret of tin—127 ii.
Sulphuret of uranium—134 ii.
Sulphuret of zinc—140 iii.

122. SULPHURIC SALTS. TAB. V.

- a.* NATIVE. Acide sulfurique libre *H*, Acide vitriolique naturellement pur, concret et non combiné *Baldassar*.
b. SULPHATE OF AMMONIA. Ammoniaque sulfatée *H*, Alkali vola.

SUL

- til vitriolé *Berg*. Sel secret de Glauber *Delisle*, Mascagnin *Kars*.
- c. SULPHATE OF SODA. Glauber salt J, K, Soude sulfatée H, Glauberite *Brong*. Sel admirable *Glauber*, Sal milagrosa nativa *Herrg*. Glaubersalz *Kars*.
- i. Reussin, found by *Reuss*. in efflorescence on morasses in the vicinity of the Pseudo volcanoes of Hungary.
- d. SULPHATE OF ALUMINE. Native alum K, Alumine sul. alkaline H, Alumine sulfatée *Brong*. Alun natif B, Argile vitriolée *Berg*. Alumbro nativo *Herrg*. Alum—
- i. *Fibrous var.* Federsalz *Kars*. Alun de plume *Bomare*, Alumine sul. fibreuse H, Trichites of the ancients *Brong*.
- ii. *Ferruginous Sulphate*. Rock butter J, Beurre de montagne B, Berg butter W.
- e. SULPHATE OF MAGNESIA. Natural epsom salt K, Magnesie sulfatée H, Sel amer natif B, Vitriol de magnesie *Méth*. Sal de los Alpes *Herrg*. Bittersalz W, Ep-somite *Méth*.
- i. *Capillary*. Hair salt J, Capillary alum K, Mag. sul. ferrière capillaire H, Sel capillaire B, Halotrichum *Scopoli*.
- f. SULPHATE OF IRON. Iron vitriol J, Green vitriol—Fer sulfaté H, Couperose vert *Delisle*, Vitriolo de marte *Petr*. Naturlicher vitriol W, Eisenvitriol *Kars*.
- g. SULPHATE OF COPPER. Blue vitriol—Vitriol of copper K, Cuivre sulfaté H, Vitriol natif B. Vitriol de Chypre—Copparoza turchina *Petr*. Kupfer vitriol W, Calchante, des anciens minéralogistes *Brong*.
- h. SULPHATE OF ZINC. White vi-

TAL

- triol—Zinc sulfaté H, Zinc vitriol *Kars*. Vitriolo di Goslar *Petr*.
- i. SULPHATE OF COBALT. Red vitriol—Cobalt sulfaté *Brong*. Kobolt vitriol W.
- Sumpferz W, 64 vii. b
Suturbrand—36 c i.
Swamp ore J, 64 vii. b
Swinstone K, 25 k i.
Sylvan W, 126
Sylvan blanc B, 126 iv.
Sylvan graphique B, 126
Sylvanerz *weiss*—126 iv.
Sylvanite K, 126 i.
Syrian garnet—55 a
123. TABULAR SPAR. TAB. CVIII.
- Tafelspath *Stütz*, Spath en tables *Brong*.
- Lucas considers the Tafelspath of *Stütz* and the Schaalstein of *Werner* as synonymous.
- Takourave—48 g ii.
124. TALC. TABLES, LXXVIII.
- a. INDURATED. Indurated talc J, Verhärteter talk W, Talc endurci B, Craie de Briançon—French chalk—
- b. LAMINATED. Talc laminaire—Gemeiner talk W, Venetian talc K, Talc commun B, Steatite lamelleuse *Daub*. Talco compatto *Nap*.
- c. MASSIVE. Potstone J, K. Talc ollaire H, Pierre ollaire B, Ollaire *Méth*. Serpentine ollaire *Brong*. Topfstein W.
- d. SCALY. Talc ecailleux H, Steatite compatto e Steatite schistosa *Nap*. Semi indurated steatites K.
- e. EARTHY. Talcite K, Earthy talc J, Talc granuleux H, Nacri-

TAL

te *Brong.* Talkerde *Lenz.* Talco terroso *Nap.* Chlorite blanche—Erdiger talk w.

Talc *Daub.* 83

Talc bleu *Sage,* 105

Talc chlorite n, 31

Talc chlorite zographique n, 57

Talc glaphique *ap.* n, 117 b

Talc granuleux n, 124 c

Talc laminaire—124 b

Talc pulverulent silicifère—101 d

Talc schisteux gris verdâtre *Deborn,* 31

Talcite n, 124 c

Talco compatto *Nap.* 124 b

Talco terroso *Nap.* 124 c

Talk *erdiger* w, 124 c

Talk *gemciner* w, 124 b

Talk *verhütteter* w, 124 a

Talkerde *Lenz.* 124 c

Talkspath *Estner* 25 l

125. TANTALUM. TAB. CXXXVIII.

TANTALE *Fr.* TANTALIO *Span.* COLUMBIUM *Hatchet.*

Tantal oxydé n, Columbite j, Columbeisen *Reuss.* Eisenkolumb *Kars.*

a. Tantal oxydé yttrifère n, Yt-tro tantal *Kars.*

This mineral was found crystallised in acute rectangular prisms imbedded in Quartz in Greenland, by M. Giesecké.

Télésie n, 39 a

Tellur *gediegen* *Reuss.* 126 i.

Tellure natif auro-argentifère graphique n, 126 ii.

Tellure natif auro-ferrifère n, 126 i.

Tellure natif auro-plombifère laminaire n, 126 iii.

Tellureisen *Kars.* 64 i.

126. TELLURIUM. TAB. CXXXVII.

TELLURE *Fr.* SYLVAN *Ger.* TELURIO *Span.*

TIN

i. Native Sylvan j, Tellure natif auro-ferrifère n, Sylvanite n, Gediengen tellur *Reuss.* Aurum problematicum *Müller,* Gediengen sylvan w, Or blanc dendritique *Deborn.*

ii. Graphic ore j, Tellure natif auro-argentifère graphique n, Sylvan graphique n, Schriftez w, Or graphique ou Aurum graphicum *Méth.*

iii. Nagyker ore and Black sylvan ore j, Tellure nat. auro-plombifère laminaire n, Nagiagerz w, Blättererz *Kars.* Or feuilleté de Nagyag *Méth.* Gold of Nagyag—

iv. Yellow sylvan ore j, Sylvan blanc n, Gelberz *Kars.* Weiss sylvanerz w.

Terre bitumineuse feuilletée *Bj-mure,* 36 b i.

Terre de Cologne—36 c iv.

Terre à froulon n, 53

Terre de Marmarosch—94 c

Terre de Verona—57

Terre verte n, 57

Terre verte *Méth.* 31 c

Thallit *Kars.* 46 a

Thermantide porcellanite n, 61 c

Thermantide tripolénne n, 100

Thon *verhütteter* w, 101 b

Thoneisenstein *körniger* w, 64 v. m

Thoneisenstein *kuglicher* *Kars.* 64 v. l

Thoneisenstein *stängliger* w, 64 v. d

Thoneisenstein *ochriger* *Kars.* 64 v. b

Thunerstone j, n, 15

Thunderstone—82

Tile ore j, 38 v. b

127. TIN. TABLES, CXXVI.

ETAIN *Fr.* ZINN *Ger.* STANNUM *Lat.* STAGNO *Ital.* ESTAÑO *Span.* JUPITER *Alchim.*

i. OXIDE. Crystallised. Common tin stone j, Tin stone n, Etain oxy-

dé n, Pierre d'étain n, Etain vitreux cristallisé *Deborn*, Etain ox. au maximum *Méth.* Stagno bruna o nera *Petr.* Estaño vidrioso *Herrg.* Zinnstein w, Crystallised ore Zinn graupen.—Granular ore Zinn zwitter, of the Germans.—

a. *Radiated.* Cornish tin ore j, Wood tin k, Etain oxydé concretionné n, Etain stalactite *Delisle*, Etain limoneux *Deb.* Holz zinn *Wid.* Kornisches zinnerz w.

ii. *SULPHURET.* Tin pyrites j, k, Etain sulfuré n, Etain pyriteux b, Zinnkies w.

Tin pyrites j, 127 ii.

Tin stone common j, k, 127 i.

Tinkal *Kars.* 22 b

Titan—128

Titane anatase n, 128 a

Titane chromaté *Ekeberg*, 128 i. d

Titane menakanite *Brong.* 128 i. c

Titane oxydé n, 128 i.

Titane oxydé chromifère n, 128 i. d

Titane oxydé ferrifère n, 128 i. c

Titane siliceo calcaire n, 128 ii.

Titan Eisen *Kars.* 128 i. c

Titanite k, 128 ii.

Titanitic ore k, 128 ii.

128. TITANIUM. TABLES, CXXXV.

MENACHINE *Gregor*, TITANE *Fr.*
TITANIO *Span.*

i. *OXIDE.* Prismatic rutile j, Titanite k, Titane oxydé n, Ruthile b, Schorl pourpre de Madagascar *Delisle*, Schorl rouge de Hongrie *Deborn*, Rutil w, Nadelstein—Red schorl—

a. *Octohedral.* Octohedrite j, Titane anatase c'est à dire étendu en hauteur n, Oisanite *Méth.* Oktaedrit w, Titan anatas *Kars.* Schorl octaèdre—Schorl bleu—

b. *Reticulated.* Sagenite *Saus.* Crispite *Méth.*

c. *Granular.* Menachanite and Nigrin j, Titan ox. ferrifère n, Menacan and Nigrin w, Titan-eisen—Iserin et Nigrin *Kars.* Titane menakanite *Brong.* Purette—Massive var. from Aschaffenburg, Gallizinite—

d. Titane oxydé chromifère n, Titane chromaté *Ekeberg.*

ii. *SILICEO-CALCAREOUS.* Titane siliceo-calcaire n, Calcareo siliceous Titanitic ore k, Gemeiner sphèn *Kars.* Braun and gelb menacan-erz w, Brown ore *Thoms.* Pic-tite—Séméline—

a. *Var. Caniculé*, formerly Sphène c'est à dire ayant la forme d'un coin n, Rayonnante en gout-tiers—

b. *Spinelline Nose*—according to *Lucas*, belongs to the Siliceo-calcareous titanium.

129. TOPAZ. TABLES, XXXV.

Topaz j, b, w, Occidental to-paz k, Silice fluatée alumineuse, topaze n, Topazio *Nap.* Topacio *Herrg.* Yellow topaz. Brézilienne *Saus.*—the foliated Beril of Seif-en, Ehrénfriedersdorf is a var. of topaz. Topaze laminaire n, Muschligiger feldspath *Link.* Nuovas minas of Brasil.

i. ap. Topaz cylindroïde n, Ber-rylschorliforme b, Schorlartiger beril w, Stangenspath *Reuss.* Pyc-nite c'est à dire dense compacte n, Schorl blanc prismatique *De-lisle*, Leucolithe d'Altemberg *Méth.* Schorlite *Klap.* Schorlar-tiger topaz *Benhardi.*

ii. ap. Topaze prismatoïde n, Pyrophyssalite—*Hisinger* consi-ders this mineral as a distinct spe-cies.—The crystals of topaz with white opaque terminations are called by the Tartars Horse's teeth *Patrin.*

TOP

Topaz is according to its colour, named Ruby or Sapphire of Brasil, Hyacinth of Portugal, Chrysolite of Saxony, Rubicelle, Aigue marine, &c.

- Topacio *Herrg.* 129
- Topaze de Boheme—103 *c*
- Topaze cylandroïde *n*, 129 *ap. i.*
- Topaze laminaire *n*, 129
- Topaze prismatoïde *n*, 129 *ap. ii.*
- Topazio *Nap.* 129
- Topazolite *Bonvoisin*, 55
- Topfstein *w*, 124 *c*
- Töppferthon *w*, 101
- Touchstone *Kidd*, 103 *i*
- Tourbe papyracée *Tondî*, 36 *b i.*

130. TOURMALINE. TABLES, XLVII.

- a. Common.* Common schorl *J*, Schorl *κ*, Tourmaline noire *n*, Schorl noir *v*, Sorlo nero *Nap.* Gemeiner schorl *w*, Basalt transparent *Delisle*, Turmalin *Wall.* Aphrizit *Andrada*.
- b. Green tourmaline J, κ, Tourmaline verte n, Electriscerschorl w, Edler schorl Kars. Electric schorl*—Brasil Emerald of the lapidaries.
- c. Blue.* Tourmaline indigo *n*, Indicolithe *Andrada*, Indicolit *Kars*.
- d. Red.* Siberite *J*, Rubellite *κ*, Tourmaline apyre *n*, Tourmaline rubellite *Brong.* Daourite *Méth.* Apyrit *Haus*.
- e.* Tourmaline apyre cylindroïde *n*, var. du Stangenspath *Reuss*, var. du Rubellit *Kars*, from Rosena.

- Tourmaline apyre *n*, 130 *d*
- Tourmaline indigo *n*, 130 *c*
- Tourmaline noire *n*, 130 *a*
- Tourmaline rubellite *Brong.* 130 *d*
- Tourmaline verte *n*, 130 *b*
- Trap *κ*, 17
- Trap tuff *w*, 18
- Traubenerz *Klap.* 70 *v. b*

TUR

131. TREMOLITE. TABLES, LXXVI.

Tremolite *J*, Tremolith *w*, var. d'amphibole formerly Gramatite *c'est à dire* marquée d'un ligne. *n*, Höpfnerite—

- a.* Baikalite has been considered a var. of Tremolite, perhaps improperly.

Trichites—122 *d i.*

132. TRIKLASITE. TABLES, CVIII.

A name given by Willman to a substance which occurs at Fahlun, accompanied with Yellow copper ore, suspected by *Lucas* to be Pyroxene.

- Triphane *n*, 115
- Triple sulphuret *Hatchet*, 70 *ii. c*
- Tripoli schisteux *Tondî*, 100
- Tuff basaltique *v*, 18
- Tungstate manganese *Deborn*, 139 *i.*
- Tungstate ferrugineux *Deborn*, 139 *i.*
- Tufo oolitico *Nap.* 25 *c*
- Tungstenite *κ*, 139 *ii.*
- Tungstene *J, κ*, 139 *ii.*
- Tungstène de Bastnaes *Crons*. 28 *i.*
- Tumite *Nap.* 15
- Turmalin *Wall.* 130 *a*

133. TURQUOISE. TABLES, CIX.

Turquoise *n, v*, Turkis *w*.

Although there are few substances more common in the cabinets of mineralogists, we can scarcely name any one, the origin of which is so little known. The Turquoise is noticed by the French authors, only in the annotations to the Carbonate of copper. The analyses given of it by Lagrange and by John, are as widely different as possible. This may arise from there being two substances totally distinct, which are both denominated Turquoise;—that of

the Vieille roche as it is called, which is found in Persia, is certainly a mineral. The other is merely teeth and bones of animals, penetrated by copper. The specimen analysed by Lagrange he believed to be of the Vieille roche, though the result does not warrant that conclusion.

Tyrqlite *Méth.* 48 c—69 a

URAN glimmer w, 134 ii.
 Uran mica J, 134 ii.
 Uran ochre J, 134 i. a
 Urane micacé B, 134 i.
 Urane noir B, 134 ii.
 Urane oxydé H, 134 i.
 Urane oxydulé H, 134 ii.
 Urane sulfuré brun *Méth.* 134 ii.
 Uranocher *Festes*, w, 134 i. a

134. URANIUM. TABLES, CXXXIII.

i. CRISTALLISED. Uran mica J, Micaceous uranitic ore K, Urane micacé B, Spath pesant vert *Sage*, Uranglimmer w, Cuivre corné, Oxyde de bismuth *Deborn*, Mica vert *Leske*, Chalkolite—
 Urane oxydé H, Oxide of uranium—

a. *Earthy*. *Festes* uranocher w, Zerreiblicher uranokker *Kars*. Ocre d'urane B, Uran ochre J.

ii. MASSIVE. Pitch ore J, Sulphurated uranite K, Urane oxydulé H, Urane noir B, Pechblend *Deborn*, Uran sulfuré brun *Méth.* Blenda picea *Herrg.* Pecherz w, Schwarz uranerz *Emm.* Pech-uran *Haus.* Eisenblende—

Variegated calcedony—24 d
 Variegated copper ore J, 38 iii. a
 Venetian talc K, 124 b
 Venus—38 i.
 Verde de cobre *Herrg.* 38 vii. a

Verde de Prato—106 a
 Verde de Suza—106 a
 Vert de montagne *Delisle*, 38 vii. a

135. VESUVIAN. TABLES, XL.

Vesuvian J, Vésuvienne B, Idocrase *c'est à dire* Figure mixte H, Hyacinthe du Vésuve *Delisle*, Schorl vert du Vésuve *Non.* Wilouïte *Sewerg.* Crisolito de vulcani *Petr.* Chorlo volcanico *Herrg.*

Vesuvian K, 72
 Violetto *Nap.* 103 b
 Virescite *Méth.* 14 a
 Virum—42
 Viscid bitumen—20 b
 Vitreous copper ore K, 38 ii.
 Vitreous silver—108 iv.
 Vitriol blue—122 g
 Vitriol de chypre—122 g
 Vitriol of cobalt—122 i
 Vitriol of copper—122 g
 Vitriol green—122 f
 Vitriol of iron J, 122 f
 Vitriol of lead native K, 70 ix.
 Vitriol de magnésie *Méth.* 122 c
 Vitriol natürlicher w, 122 f
 Vitriol de plomb natif B, 70 ix.
 Vitriol white—122 h
 Vitriolo de Goslar *Petr.* 122 h
 Vitriolo de marte *Petr.* 122 f
 Vitrum Muscoviticum—120 a
 Volcanic ashes—68 d
 Volcanic mud—68 c
 Volcanic schorl—14 a
 Volcanite—14 a
 Vulpenite—120 d
 Voraulite *Méth.* 69 a

WAD *Kars* 76 i. c
 Wad des Anglais *Lucas*, 76 i. c
 Walkererde w, 53
 Wasserblei w, 84

WAV

ZEO

136. WAVELLITE. TABLES, LXVI.

Wavellite *Babington*, Hydrargillite *Davy*, Hydrate d'alumine *Klap.* According to *Bournon* Diaspore is a variety of this mineral.

Weissgültigerz w, 70 ii. *d*

Weisserz w, 12 iv.

Weissbleierz—70 iv.

137. WERNERITE. TABLES, LVII.

a. CRYSTALLISED. Wernerite *Andrada*, Arktizit w.

b. PRISMATIC. Paranthine n, Scapolite *Andrada*, Rapidolithe *Abild.*

c. FOLIATED. Micarelle *Abild.* Strahliger scapolith *Kars.*

d. COMPACT. Pierre grasse n, Fettstein w, Elacolith *Klap.* Sodaait *Ekeberg*, Lythrodos—Natrolite of Sweden—

Whinstone k, 17

138. WHETSLATE. TAB. LXXXVII.

Whetslate J, Argile schisteuse novaculaire n, Schiste à aiguiser b, Novaculite k, Cotricula *Wall.* Cos *Méth.*

White antimony J, 8 iii.

White cobalt ore J, 37 i.

White garnet—72

White lead ore J, k, 70 iv.

White silver ore J, 70 ii. *d*

White vitriol—122 *b*

Weisenerz w, 64 vii. *b*

Wilouite *Sewerger*, 135

Wismuth *gediegen* w, 19 i.

Wismuthglanz w, 19 ii.

Wismuthokker w, 19 iii.

Witerite *Nap.* 16 *b*

Witherit J, b, w, 16 *b*

139. WOLFRAM. TABLES, CXXXVI.

Scheelin *Fr.* Scheel w, Tungstenite k.

i. FERRUGINOUS. Wolfram J, w, k, Scheelin ferruginé n, Tungstate manganésé *Deborn*, Tungstate ferrugineux *Méth.* Brown gossan of the Cornish miners.

ii. CALCAREOUS. Tungsten J, k, Scheelin calcaire n, Pierre pesante b, Schwerstein w, Scheelerz *Kars.*

Wood tin J, k, 127 ii.

Würfel zeolith *var. Reuss.* 5 a—29

Würfelerz w, 64 viii.

Würfelstein *Westr.* 75 c

Würfelspath w, 120 e

Würflicher feldspath w, 48 a

Yanolite *Méth.* 15

Yellow copper ore k, 38 iii.

Yellow lead ore J, 70 viii.

Yellow molybdenated lead ore k, 70 viii.

Yellow orpiment—12 iii.

Yellow quartz—103 e

Yellow silvan ore J, 126 iv.

Yellow sulphuret of copper—38 iii.

Yénite *Lelievre*, 62

Yeso cristalizado *Herrg.* 120 a

Yeso fibroso *Herrg.* 120 b

Ytterbite—54

Yttr tantal *Kars.* 125 a

ZEICHENSCHIEFER w, 44

Zeolite noire *Geyer*, 54

Zeolithe bleue *Deborn*, 69

Zeolithe cubique b, 29

Zeolithe dur *Méth.* 5 a

Zeolithe efflorescente n, b, 67

Zeolithe farineuse b, 81 a

Zeolithe d'Hellesta *Rinman*, 9

Zeolithe jaune de Schaffhausen

Bellevue, 86

Zeolithe lamelleuse b. 118

Zeolithe rouge d'Edelfors 81 b

Zeolithe rouge du Tyrol *Faujas*, 118

Zeolithe de Suède—115
 Zeolithe turchina *Petr.* 69
 Zeolithe à 24 facettes *B.* 5 *a*
 Zeigelerz *w.* 38 *v. b*
 Zillerthite *Méth.* 4 *b*
 Zeylonite *w.* 112 *a*
 Zerreiblicher uranokker *Kars.* 134
i. a

140. ZINC. TABLES, CXXVII.

- i. OXIDE. Calamine *J. B. K.* Zinc oxydé *H.* Zinc en chaux *Berg.* Spath de zinc *Delisle*, Cadmia of Pliny *Kidd*, Oxyde de zinc silicifère *Berthier*, Giallamina *Petr.* Galmei *w.* Zinc glaserz *Kars.*
- ii. CARBONATE. Zinc carbonaté *H.* Späthiger galmei *Kars.* Zinc carb. hydreux *H.* Zinc hydraté *Méth.* Zinc blüthe *Kars.*
- iii. SULPHURET. Blende *J. K. B. W.* Zinc sulfuré *H.* Blenda *Herrg.*
- Zinc blüthe *Kars.* 140 ii.
 Zinc carb. hydreux *H.* 140 ii.
 Zinc en chaux *Berg.* 140 i.
 Zinc glaserz *Kars.* 140 i.
 Zinc hydraté *Méth.* 140 ii.
 Zinc oxydé *H.* 140 i.
 Zinc sulfaté *H.* 122 *h*
 Zinc sulfuré *H.* 140 iii.
 Zinc vitriol *Kars.* 122 *h*

Zinn—127
 Zinnstein *w.* 127 i.
 Zinnkies *w.* 127 ii.
 Zinnerz *kornisches w.* 127 i. *a*
 Zinnober *w.* 80 iii.

141. ZIRCON. TABLES, XXXI.

Zircon *J. H.* Jargon *B.* Zircon *w.* Zirconite *Schum.* Giacinto et Giargoné *Nap.* Colorless var. false or mock Diamond—

a. Hyacinth *J. K. B.* Hyazinth *w.* Hyacinthe d'Expaillie—

Bournon has given the name of Craitonite to a substance which accompanies the Anatase of St Christophe, in compliment to his friend Dr Crichton of St Petersburg, with whose name he has taken the same liberty Lelievre did with that of Jena, in order to adapt it to the French orthography. Craitonite occurs in very minute acute rhomboidal crystals, which are often deeply truncated. It has not been regularly analysed, but its component parts are found to be Zircon, Silica, Iron and Manganese.

Zoisite *w.* 46
 Zoned agate—24 *d*

SYNOPTIC TABLES

OF THE

ANALYSES OF MINERALS.

SYNOPSIS

ANALYSIS OF MINERALS

EXPLANATION

OF THE

TABLES OF ANALYSES.

IN the arrangement of these Tables, it has been my wish, as far as it was possible, to place before the eye, the principle by which Mineralogical arrangement is guided; and to give as it were, along with the systematic distribution, the grounds on which it rested. For this purpose the Tables are divided into 16 columns. The first contains the *Number* by which the Analysis of any substance mentioned in the List of Synonymes may be found;—the second presents the *Systematic arrangement* of Minerals;—the third, the *Trivial Names* by which they are most commonly known;—the fourth is destined for the *Locality* of the substance analysed, which, though of very prominent importance, is often totally neglected. This omission cannot be attributed to the Analysts, but in general to the carelessness of the authors who have quoted their works, without thinking it necessary to state all the particulars; and, in many instances, I have not

been able to consult the original. In the third and fourth columns are occasionally inserted notices, relative to the substance analysed, neither belonging to its trivial name nor locality. Where neither of these were given, I thought it better to make some use of the columns than to leave them altogether unemployed. The fifth column is intended to represent the *Specific Gravity*, which it is very surprising should ever be neglected by the Analyst. This, however, is often the case; and is, in some instances, supplied on the authority of HAUY, on whose accuracy I have every reliance.

The next column contains the *Name* of the Analyst, and the ten following the different chemical ingredients of the mineral. To prevent the columns from spreading beyond a convenient breadth, one only has been devoted to Acids, and another to Alkalies; the kind of either being distinguished by an initial letter. A star in a column marks that a trace of the substance under which it is placed, has been observed by the chemist; and where an initial letter is subjoined to the portions of any of the earths or metals, it is to notify that these are acidiferous compounds, of which the letter denotes the nature.

The double column is intended for the reception of such ingredients as occur so seldom as not to demand a head for their own use; and when I have not been able to dispose of the whole in these ten columns, I have had recourse to a foot-note,—but it will be seen how very seldom I have been obliged to make use of it.

It very often occurs in stating the results of analyses, that chemists have not considered it requisite to separate the proportions of different compounds. Of this we have several examples in the analyses of the Carbonate of Magnesia, which, we are generally informed, contains so much Carbonate of Lime, and so much Carbonate of Magnesia. In some instances this has been carried still farther; for in KLAPROTH's Essays, we find an analysis of the Saltpetre of Molfetta, in which four different ingredients are named, all of them compounds. These in the annexed tables are reduced by means of Dr WOLLASTON's scale, to the proportions of the usual analytic elements of which the fossil is composed; thus, in KLAPROTH's Essays we find the stone of Molfetta is stated to contain

Pure prismatic nitre	425½ gr.	by the scale = to	{ 22.75 nit. acid.
			{ 19.85 potash.
Muriated neutral salt	2. gr.	=	{ .093 m. acid.
			{ .107 soda.
Selenite	254½ gr.	=	{ 15.4 sul. acid.
			{ 10. lime.
Limestone	304. gr.	=	{ 17. ditto.
			{ 13.4 carb. acid.
Loss	14. gr.	=	{ 1.4
	<hr/> 1000		<hr/> 100

In the same way some others are reduced, and the compound of Carbonate of Lime in general wherever it occurred. This operation might have been extended throughout the whole, had the scale supplied the means. I am aware it might have been done by applying the proportions as estimated by other chemists; but being afraid of misleading others, by going astray myself, I refrained from making the attempt.

The last column is devoted to the names of the authors I have consulted—whose works are as under:

Aikin.—Dictionary of Chemistry and Mineralogy—London 1807.

An. Ch.—Annales de Chimie: when followed by a number it denotes the volume.

Annals.—Annals of Philosophy.

Bournon.—Traité Complet de Chaux Carbonatée—London.

Brochant.—Traité Élémentaire de Minéralogie—Paris 1802.

Brongniart.—Traité Élémentaire de Minéralogie—Paris 1807.

Ed. Trans.—Transactions of the Royal Society of Edinburgh.

Gallizin.—Tableau Lithologique—Brunswick 1802.

Haüy.—Traité de Mineralogy—Paris 1801.

Jameson.—System of Mineralogy—Edin. 1804.

Journal.—Journal des Mines; and when followed by a number it denotes the volume.

Kidd.—Outlines of Mineralogy—Oxford 1809.

Kirwan.—Elements of Mineralogy—1784.

Klaproth's Essays.—His own analyses are distinguished by a number corresponding with that of the experiment in his book.

Leonhard.—Taschenbuch 1810, 11, 12, & 13.

Lucas.—Tableau Méthodique des Espèces Minérales—Paris 1806 and 1813.

Phil. Trans.—Transactions of the Royal Society of London.

Tab. Com.—Tableau Comparatif, des Résultats de la Cristallographie et de l'Analyse Chimique—Par Haüy, Paris 1809.

Thomson.—System of Chemistry—Edin. 1807 & 1810.

Thury.—Héricart de Thury Mineralogie Synoptique—Paris 1805.

In a Table by themselves, I have given the analyses of all the Meteoric minerals I have been able to meet with.

1st CLASS, SALINE SUBSTANCES.

		Trivial Name	Locality	Sp.gr.	Analyst
I.	1. GEN. CARBONIC.				
	a. Native	.	.	.	.
	b. Carbonate of soda	Natron	Sukena	.	Klaproth
	Ditto	<i>Artificial</i>	.	.	Ditto
II.	2. GEN. BORACIC.				
	a. Native	Sassolin	Tuscany	.	Klaproth
	b. Borate of soda	Tinkal	Thibet	.	Ditto
	Ditto	Borax	.	.	Bergman
III.	3. GEN. NITRIC.				
	a. Nitrate of potash	Saltpetre	Molfetta	.	Klaproth
	Ditto	<i>Artificial</i>	.	.	Berthollet
	Ditto	.	.	.	Bergman
	Ditto	.	.	.	Kirwan
	b. Nitrate of lime	<i>Artificial</i>	.	1.62	Bergman
	Ditto	Ditto	.	.	Kirwan
IV.	4. GEN. MURIATIC.				
	a. Native	.	.	.	.
	b. Muriate of soda	Fossil salt	Halle	.	Bergman
		Muriacite	Bucharia	.	Klaproth
	c. Muriate of ammon.	Sal ammoniac	Vesuvius	.	Ditto
	Ditto	.	.	.	Ditto
	Ditto	<i>Artificial</i>	.	.	Lussac
V.	5. GEN. SULPHURIC.				
	a. Native	.	.	.	.
	b. Sulph. of ammonia	Mascagnin	Tuscany	.	Kirwan
	c. Sulph. of soda	Glauberite	New Castile	2.73	Brongniart
	Ditto	Glaubersalt	.	.	Bergman
	d. Sulph. of alumine	Plumose alum	Freyenwalde	.	Klaproth
	Ditto	.	Tolfa	.	Ditto
	Ditto	.	.	.	Vauquelin
	Ditto <i>ferruginous</i>	Rock butter	Irtisch	.	Klaproth
	e. Sulph. of magnesia	Epsom salt	Mt. Martre	.	Bergman
	Ditto	Hair salt	Idria	.	Klaproth
	f. Sulph. of iron	Green vitriol	.	.	Bergman
	g. Sulph. of copper	Blue vitriol	.	.	Proust
	h. Sulph. of zinc	White vitriol	Ramelsberg	1.33	Klaproth
	Ditto	.	Cornwall	.	Schaub
	Ditto	<i>Artificial</i>	.	.	Bergman
	i. Sulph. of cobalt	Red vitriol	Hanau	.	Kopp

‡ Both anhydrous sulphates. † With water of cristallisation. ‡ Micaceous.

1st ORDER, SOLUBLE SALTS.

Acid	Alkali	Silex	Alum.	Lime	Mang	Water	Loss	Other ingred.	Authority
38. c	37. s	.	.	.	.	22.5	.	2.5 s soda	No. 78
16. c	22. s	.	.	.	.	62.	.	.	Ditto
86. B	.	.	.	3. s	11. s	.	.	* iron	No. 80
37. B	14.5 s	.	.	.	.	47.	.	.	No. 163
36. B	17. s	.	.	.	.	47.	.	.	Thury
22.75 N	19.85 P	.	.	27.	.	.	1.4	13.4 c. acid	No. 24
51.38 N	48.62 P	.	.	.	.	.	.	.	Thomson
43. N	49. P	.	.	.	.	18.	.	.	Tab. com.
30. N	63. P	.	.	.	.	7.	.	.	Thury
43. N	.	.	.	32.	.	25.	.	.	Thomson
57.44 N	.	.	.	32.	.	10.56	.	.	Ditto
52. M	42. s	.	.	.	.	6.	.	.	Tab. com.
6.9 M	7.9 s	53. †	.	14.3	.	.	.	2.3 c. acid ||	No. 22
49.5 M	31.4 A	.	.	.	.	16.6	.	2.5 s. amm.	No. 79
50.73 M	32. A	.	.	.	.	17.	.	.27 soda	Ditto
61.65 M	38.35 A	.	.	.	.	.	.	.	homson
55.7 s	29.7 A	.	.	.	.	14.16	.	.	Kirwan
.	51. †	.	.	49. †	.	.	.	.	An. ch. 67
27. s	15 s	.	.	.	.	58.	.	.	Tab. com.
77. † s	.25 P	.	15.25	.	.	.	.	7.5 iron	No. 81
16.5 s	.4 P	19.	56.5	.	.	3.	.	.	No. 150
25. s	3.08 P	24.	43.92	.	.	4.	.	.	Ditto
31. s	.25 s	.	2.5	4.5	.25	.	49.25	6. iron	Leon. 13
33. s	.	.	.	.	.	48.	.	19. mag.	Tab. com.
67. s	.	.	.	.	.	.	.	33. ditto	No. 82
39. s	.	.	.	.	.	38.	.	23. iron	Tab. com.
33. s	.	.	.	.	.	36.	.	32. cop.	Ditto
22. s	.	.	.	.	.5	50.	.	27.5 zinc	No. 205
21. s	.	.	.	.	4.	46.	4.	25. ditto	Tab. com.
40. s	.	.	.	.	.	40.	.	20. ditto	Ditto
19.74 s	.	.	.	.	.	41.55	.	38.71 cobalt	An. ch. 70

ous sand. § With 15.4 s. acid & a trace of m. of soda. || With 16. sul. acid.

THE UNIVERSITY OF CHICAGO

THE UNIVERSITY OF CHICAGO									
1	2	3	4	5	6	7	8	9	10
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21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
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91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170
171	172	173	174	175	176	177	178	179	180
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271	272	273	274	275	276	277	278	279	280
281	282	283	284	285	286	287	288	289	290
291	292	293	294	295	296	297	298	299	300
301	302	303	304	305	306	307	308	309	310
311	312	313	314	315	316	317	318	319	320
321	322	323	324	325	326	327	328	329	330
331	332	333	334	335	336	337	338	339	340
341	342	343	344	345	346	347	348	349	350
351	352	353	354	355	356	357	358	359	360
361	362	363	364	365	366	367	368	369	370
371	372	373	374	375	376	377	378	379	380
381	382	383	384	385	386	387	388	389	390
391	392	393	394	395	396	397	398	399	400
401	402	403	404	405	406	407	408	409	410
411	412	413	414	415	416	417	418	419	420
421	422	423	424	425	426	427	428	429	430
431	432	433	434	435	436	437	438	439	440
441	442	443	444	445	446	447	448	449	450
451	452	453	454	455	456	457	458	459	460
461	462	463	464	465	466	467	468	469	470
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1st CLASS, SALINE SUBSTANCES.

VI.

1. GENUS, LIME.	Trivial Name	Locality	Sp.gr.	Analyst	Line
1. SPECIES, CARBONATE					
a. Crystallised	Calcareous sp.	Iceland	2.71	Phillips	55.5
	Ditto	Ditto	.	Bucholz	56.5
	Ditto	.	.	Biot	56.35
	Ditto	.	.	Vauquelin	57.
	Ditto	Iceland	.	Stromayer	56.15
	Ditto	Andreasberg	.	Ditto	55.98
	Ditto	.	.	Wollaston	56.
b. Stalactitical	Calc sinter	.	2.81	Bucholz	56.
c. Fibrous	Satin spar	Alston moor	2.70	Pepys	50.1
d. Foliated Solid	Schieferspar	Cornwall	2.74	Phillips	54.7
	Ditto	.	.	Bucholz	55.
	Ditto	Norberg	.	Hisinger	56.75
	Schaalstein	.	.	.	.
<i>Pulverulent</i>	Schaumerd	.	.	Bucholz	51.5
e. Oviform	Oolite	.	.	Kirwan	50.5
	Peastone	.	.	.	.
f. Earthy Solid	Chalk	.	2.31	Bucholz	56.5
	Ditto	Volhynia	.	Hacquet	47.
<i>Pulverulent</i>	Agaric min.	.	.	.	.
g. Granular	Statuary marb.	.	2.48	Bucholz	56.5
	Blue lime stone	Vesuvius	.	Klaproth	58.
h. Compact	Comp. marble	.	2.6	Simon	53.
	Lumachello	.	.	.	.
	Mehlbaz	Weimar	.	Bucholz	33.41
i. Argillaceous	Marl	.	.	.	.
k. Bituminous	Stinkstone	.	.	.	.
	Fetide	.	2.67	Kirwan	.
l. Magnesian Crist.	Bitterspath	Halle	2.48	Klaproth	29.
	Rhomb spar	Taberg	.	Ditto	41.5
	Ditto	Halle	.	Ditto	38.5
	Miemite	Miemo	.	Ditto	50.
	Pearl spar	Sweden	.	Hisinger	27.97
	Ditto	Gotha	2.88	Klaproth	33.
<i>Prismatic</i>	Dolomite	Mexico	.	Ditto	28.9
	Ditto	Tschislag.	2.76	Ditto	28.2
<i>Granular</i>	Ditto	St Gothard	.	Saussure	44.28
	Ditto	Ditto	.	Klaproth	28.5
	Ditto	Appenines	.	Ditto	36.5
	Ditto	Carin. Alpes	2.83	Ditto	29.3
	Ditto	Castellamare	.	Ditto	33.
	Ditto	Tenedos	.	Ditto	29.
<i>Compact</i>	Gurofians	Guros	2.76	Ditto	39.5
	D. Bitterkalk	Moravia	2.88	Bucholz	48.
	Ditto	Herjeadalen	.	Hisinger	29.8
	Grec. marble	R. of Rome	.	Tennant	30.32
	Massive	Vesuvius	.	Ditto	34.3
	Ditto	Iona	.	Ditto	31.12

2d ORDER, INSOLUBLE SALTS.

Cacid	Silex	Alum	Mag.	Iron	Mang	Water	Loss	Other ingred.	Authority
44.5	.	.	Thomson
43.5	.	.	Ditto
42-9273	.	.	Tab. com.
43.	Ditto
43-7	.	.	.	*	.15	.	.	.	Annals
43-56	.	.	.	*	.36	.1	.	.	Ditto
44.	Scale
43.	1.	.	.	Thomson
47-6	*	2.3	.	Aiken
43-3	.05	.	.	.8	.	.5	.65	.	Thomson
41-7	3.	.	3.	.	Ditto
42-25	1.	.	.	Leonhard
39.	5-7	.	.	3-3	.	1.	.	.	Thomson
39-5	.	10.	.	.	.	.	.	.	Gallizin
43.	.	*	.	*	.	.5	.	* m. acid	Thomson
33.	7.	2.	8.	.	.	.	.5	.	Journal
43.5	.	.	.
28-5	1-25	.	.5	.25	.	11.	.	.25 carbon	Thomson
42-5	1-12	1.	.	.75	.	1.63	.	.	Journal
42.	10-25	.	9-43	2-25	1-25	.	1-41	.	Thomson
.	Journal
.
45.	Kirwan
23.	.	.	45. c	3.	*	.	.	.	No. 21
31-5	.	.	25. c	2-25	*	.	.	.	Ditto
29-5	.	2.	25-5 c	1. c	.	2.	.	.	No. 148
22.	.	.	42-5 c	3. c	.	.	.	.	No. 110
44-6	.	.	21-14 c	3-4	1-5	.	1-39	.	Annals
47-5	.	.	14-5	2-25	.	2-75	.	.	No. 111
22-6	.	.	32. c	7-5 c	2. c	5.	.	.	No. 145
39-25	.	.	19-74	.5	.	11-31	1.	.	Leon. 13
46.	.	5.86	1-4	.14	.	.	1-71	.	Klap. 146
21-5	.	.	46-5 c	.5	.25	.	.75	.	No. 146
28-5	.	.	35. c	.	.	.	.	.	Ditto
22-7	.	.	48. c	.2	.	.	.	.	Ditto
26.	.	.	40-5 c	.	.	.	.5	.	Ditto
22.	.	.	48. c	.	.	.	.	.	Ditto
38.	.	.	29-5 c	.	.	.	.	.	No. 186
28.	.	.	20-5	*	1-5	.	.	.	Journal
47-6	.	.	21-6	1-5	.	.	.	.	Leon. 12
48.	.	.	21-24	.4	.	.	.	.	Bournon
48.	.	.	18-27	.24	.	.	.	.	Ditto
48.	.	.	17-6	.	.	.	.	4. residue	Ditto

STATE OF NEW YORK

NAME	RESIDENCE	EDUCATION	EXPERIENCE	REMARKS
John A. Smith	New York City	Harvard University	1890-1895	First Class
James B. Jones	Albany	Union College	1895-1900	Second Class
William C. Brown	Schenectady	Schenectady College	1900-1905	Third Class
Robert D. White	Rochester	Rochester College	1905-1910	Fourth Class
Charles E. Green	Syracuse	Syracuse University	1910-1915	Fifth Class
Frank F. Black	Buffalo	Buffalo College	1915-1920	Sixth Class
George G. Gray	Watkinsville	Watkinsville College	1920-1925	Seventh Class
Henry H. Hall	Utica	Utica College	1925-1930	Eighth Class
Isaac I. Hill	Oneida	Oneida College	1930-1935	Ninth Class
Julius J. Kim	Watkinsville	Watkinsville College	1935-1940	Tenth Class
Leo K. King	Watkinsville	Watkinsville College	1940-1945	Eleventh Class
Arthur L. Lamb	Watkinsville	Watkinsville College	1945-1950	Twelfth Class
Edward M. Martin	Watkinsville	Watkinsville College	1950-1955	Thirteenth Class
Frederick N. Nash	Watkinsville	Watkinsville College	1955-1960	Fourteenth Class
Philip O. Olsen	Watkinsville	Watkinsville College	1960-1965	Fifteenth Class
Richard P. Parker	Watkinsville	Watkinsville College	1965-1970	Sixteenth Class
Samuel Q. Quinn	Watkinsville	Watkinsville College	1970-1975	Seventeenth Class
Thomas R. Reed	Watkinsville	Watkinsville College	1975-1980	Eighteenth Class
Victor S. Stone	Watkinsville	Watkinsville College	1980-1985	Nineteenth Class
William T. Taylor	Watkinsville	Watkinsville College	1985-1990	Twentieth Class
Yves U. Underhill	Watkinsville	Watkinsville College	1990-1995	Twenty-first Class
Zachary V. Vance	Watkinsville	Watkinsville College	1995-2000	Twenty-second Class
Adam W. Walker	Watkinsville	Watkinsville College	2000-2005	Twenty-third Class
Benjamin X. Xavier	Watkinsville	Watkinsville College	2005-2010	Twenty-fourth Class
Carl Y. Young	Watkinsville	Watkinsville College	2010-2015	Twenty-fifth Class
David Z. Zimmerman	Watkinsville	Watkinsville College	2015-2020	Twenty-sixth Class
Ernest A. Adams	Watkinsville	Watkinsville College	2020-2025	Twenty-seventh Class
Fred B. Baker	Watkinsville	Watkinsville College	2025-2030	Twenty-eighth Class
Gordon C. Carter	Watkinsville	Watkinsville College	2030-2035	Twenty-ninth Class
Harold D. Davis	Watkinsville	Watkinsville College	2035-2040	Thirtieth Class

1st CLASS, SALINE SUBSTANCES.

	1. GENUS, LIME.	Trivial Name	Locality	Sp-gr.	Analyst	Lim
VI.	1. Sp. Continued. m. Quartzose	Cris. sandstone	Fontainebl.	3.6	Sage	18.5
		Natrochalzite	Reichenbach	.	.	31.5
		Conite	Meisner	3.	John	14.
		Calp	Dublin	.	Kirwan	38.25
		Madreporite	Salzbouurg	.	Moll	35.75
	n. Ferro-manganes.	Ditto	.	.	Klaproth	53.
		Ditto	.	.	Ec. de Min.	35.5
		Pearl spar	.	2.83	Bergman	21.5
		Hard cal. spar	.	2.91	Vauquelin	58.5
		Ditto	.	.	Biot	56.33
VII.	2. Sp. ARRAGONITE. a. Crystallised	Ditto	.	.	Bucholz	54.5
		Ditto	.	.	Holme	55.5
		Ditto	.	.	Stromeyer	53.39
		Ditto	Dax	.	Ditto	53.62
		Ditto	Arragon	.	Ditto	55.02
	b. Coralliforme	Flos ferri	.	.	.	.
VIII.	3. Sp. PHOSPHATE a. Crystallised	Apatite	Saxony	3.20	Klaproth	55.
		Ditto	Uton	.	Ditto	92.
		Asparag. stone	Spain	3.09	Vauquelin	54.28
		Do. Massive	Zillerthal	3.19	Klaproth	53.75
		Phosphorite	Estramadur.	2.81	Pelletier	59.
	c. Earthy	Do. Pulverul.	Marmaros	.	Klaproth	47.
IX.	4. Sp. FLUATE. a. Crystallised	Fluor spar	.	3.19	Scheele	57.
		Ditto	Gersdorf	.	Klaproth	67.75
		Ditto	.	.	Richter	65.
		Ditto	.	.	Thomson	67.34
		Ditto	.	.	John	20.
	b. Compact c. Earthy	.	Ratofska	.	Pelletier	21.
		.	Marmaros	.	.	.
X.	5. Sp. SULPHATE. a. Crystallised	Gypsum	.	2.31	Berthier	32.8
		Selenite	New York	.	Warden	32.
		.	.	.	Bucholz	33.
		.	.	2.30	Ditto	33.
	
	b. Fibrous c. Compact d. Earthy e. Anhydrous	Vulpinite	Vulpino	2.87	Vauquelin	92.
		Cube spar	Berne	2.96	Ditto	40.
		.	Halle	2.96	Klaproth	41.71
		.	Sulz	2.94	Ditto	42.
		Compact	Bohnia	.	Klaproth	42.
XI.	6. Sp. NITRATE.	See Nit. salts				
XII.	7. Sp ARSENIATE.	Pharmacolite	Furstemberg	2.64	Klaproth	25.
		Ditto	Andreasberg	.	John	27.28
XIII.	8. Sp. BORATE. a. Crystallised	Datholite	Arendahl	2.98	Klaproth	35.5
		Ditto	.	.	Vauquelin	34.
		Ditto	Ditto	2.88	Klaproth	39.5
		Botriolite	Ditto	.	.	.

+ With 1. c. acid and .5 m. acid.

§ With 11.5

2d ORDER, INSOLUBLE SALTS.

Acid	Silex	Alum	Mag.	Iron	Mang	Water	Loss	Other ingred.	Authority
14.5	.	.	.	.	.	.	.	.	Lucas
24.5	37.	4.	.	.	.	.	.	4. soda	Leonhard
49.	.	.	33.75	2.25	.	1.	.	.	Ditto 13
29.75	18.	7.	.	2.	.	.	.	3. bitumen	Kidd
27.5	12.5	10.12	.	10.85	.	.	.	.	Klap. 105
40.	4.5	.	.5 c	1.25 c	*	.	.	.5 carbon.	No. 105
27.5	13.	10.	.	11.	.	.	3.	.	Lucas
16.5	.	.	.	38.	24. c	.	.	.	Thomson
41.5 c	.	.	.	.	.	.	.	.	Tab. com.
43.04 c	.	.	.	.	.	.63	.	.	Ditto
41.5 c	.	.	.	.	.	3.5	.	.	Thomson
43.7 c	.	.	.	.	.	.8	.	.	Annals
42.87	.	.	.	.	.	.98	.	2.88 stron.	Ditto
42.45	*	.	.	*	*	.30	.	2.52 ditto	.
43.29	.	.	.	*	.	.21	.	1.45 ditto	.
.
45. P	.	.	.	.	.	.	.	.	No. 144
.	1.	.	.	*	.	.	.	6. carb. lime	No. 202
45.72 P	.	.	.	.	.	.	.	.	Journal
46.25 P	.	.	.	.	.	.	.	.	No. 144
34. P	2.	.	.	1.	.	.	.	2.5 F acid	No. 166
32.25 P	.5	.	.	.75	.	1.	.	2.5 F acid	An. ch. 7
16. F	27.	.	.	.	.	.	.	.	Brong.
32.25 F	.	.	.	*	.	.	.	.	No. 165
35. P	.	.	.	.	.	.	.	.	Thomson
32.66 F	.	.	.	.	.	.	.	.	Ditto
49.5 F	*	.	.	3.75	.	10.	.	2. s. lime	Leon. 13
28.5 F	31.	15.5	.	1.	.	.	2.	1. p acid	An. ch. 9
45.2 S	.	.	.	.	.	22.	.	.	Tab. com.
47. S	.	.	.	.	.	21.	.	.	Ditto
43.9 S	.	.	.	.	.	21.	.	.	Thomson
43.5 S	.	.	.	.	.	21.	2.5	.	Ditto
.
.	8.	.	.	.	.	.	.	.	Thury
60. S	.	.	.	.	.	.	.	.	Klap. 198
55. S	.	.	.	.	.	.	2.25	1. m. soda	No. 147
57. S	.25	.	.	1.	.	.	.	.	Ditto
56.5 S	.	.	.	.	.	.	.	.25 soda	Ditto
50.54 A	.	.	.	.	.	24.26	.	.	No. 106
45.68 A	.	.	.	.	.	23.86	3.18	.	Journal
24. B	36.5	.	.	.	.	4.	.	.	No. 164
21.67 B	37.66	.	.	.	.	5.5	1.17	.	Lucas
13.5 B	36.	.	.	1.	.	6.5	.	.	No. 192

residue,

|| With 5.25 lime and silex.

THE UNIVERSITY OF CHICAGO									
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981	982	983	984	985	986	987	988	989	990
991	992	993	994	995	996	997	998	999	1000

1875-1876		1876-1877		1877-1878		1878-1879		1879-1880		1880-1881		1881-1882		1882-1883		1883-1884		1884-1885		1885-1886		1886-1887		1887-1888		1888-1889		1889-1890		1890-1891		1891-1892		1892-1893		1893-1894		1894-1895		1895-1896		1896-1897		1897-1898		1898-1899		1899-1900		1900-1901		1901-1902		1902-1903		1903-1904		1904-1905		1905-1906		1906-1907		1907-1908		1908-1909		1909-1910		1910-1911		1911-1912		1912-1913		1913-1914		1914-1915		1915-1916		1916-1917		1917-1918		1918-1919		1919-1920		1920-1921		1921-1922		1922-1923		1923-1924		1924-1925		1925-1926		1926-1927		1927-1928		1928-1929		1929-1930		1930-1931		1931-1932		1932-1933		1933-1934		1934-1935		1935-1936		1936-1937		1937-1938		1938-1939		1939-1940		1940-1941		1941-1942		1942-1943		1943-1944		1944-1945		1945-1946		1946-1947		1947-1948		1948-1949		1949-1950		1950-1951		1951-1952		1952-1953		1953-1954		1954-1955		1955-1956		1956-1957		1957-1958		1958-1959		1959-1960		1960-1961		1961-1962		1962-1963		1963-1964		1964-1965		1965-1966		1966-1967		1967-1968		1968-1969		1969-1970		1970-1971		1971-1972		1972-1973		1973-1974		1974-1975		1975-1976		1976-1977		1977-1978		1978-1979		1979-1980		1980-1981		1981-1982		1982-1983		1983-1984		1984-1985		1985-1986		1986-1987		1987-1988		1988-1989		1989-1990		1990-1991		1991-1992		1992-1993		1993-1994		1994-1995		1995-1996		1996-1997		1997-1998		1998-1999		1999-2000		2000-2001		2001-2002		2002-2003		2003-2004		2004-2005		2005-2006		2006-2007		2007-2008		2008-2009		2009-2010		2010-2011		2011-2012		2012-2013		2013-2014		2014-2015		2015-2016		2016-2017		2017-2018		2018-2019		2019-2020		2020-2021		2021-2022		2022-2023		2023-2024		2024-2025		2025-2026		2026-2027		2027-2028		2028-2029		2029-2030		2030-2031		2031-2032		2032-2033		2033-2034		2034-2035		2035-2036		2036-2037		2037-2038		2038-2039		2039-2040		2040-2041		2041-2042		2042-2043		2043-2044		2044-2045		2045-2046		2046-2047		2047-2048		2048-2049		2049-2050		2050-2051		2051-2052		2052-2053		2053-2054		2054-2055		2055-2056		2056-2057		2057-2058		2058-2059		2059-2060		2060-2061		2061-2062		2062-2063		2063-2064		2064-2065		2065-2066		2066-2067		2067-2068		2068-2069		2069-2070		2070-2071		2071-2072		2072-2073		2073-2074		2074-2075		2075-2076		2076-2077		2077-2078		2078-2079		2079-2080		2080-2081		2081-2082		2082-2083		2083-2084		2084-2085		2085-2086		2086-2087		2087-2088		2088-2089		2089-2090		2090-2091		2091-2092		2092-2093		2093-2094		2094-2095		2095-2096		2096-2097		2097-2098		2098-2099		2099-2100		2100-2101		2101-2102		2102-2103		2103-2104		2104-2105		2105-2106		2106-2107		2107-2108		2108-2109		2109-2110		2110-2111		2111-2112		2112-2113		2113-2114		2114-2115		2115-2116		2116-2117		2117-2118		2118-2119		2119-2120		2120-2121		2121-2122		2122-2123		2123-2124		2124-2125		2125-2126		2126-2127		2127-2128		2128-2129		2129-2130		2130-2131		2131-2132		2132-2133		2133-2134		2134-2135		2135-2136		2136-2137		2137-2138		2138-2139		2139-2140		2140-2141		2141-2142		2142-2143		2143-2144		2144-2145		2145-2146		2146-2147		2147-2148		2148-2149		2149-2150		2150-2151		2151-2152		2152-2153		2153-2154		2154-2155		2155-2156		2156-2157		2157-2158		2158-2159		2159-2160		2160-2161		2161-2162		2162-2163		2163-2164		2164-2165		2165-2166		2166-2167		2167-2168		2168-2169		2169-2170		2170-2171		2171-2172		2172-2173		2173-2174		2174-2175		2175-2176		2176-2177		2177-2178		2178-2179		2179-2180		2180-2181		2181-2182		2182-2183		2183-2184		2184-2185		2185-2186		2186-2187		2187-2188		2188-2189		2189-2190		2190-2191		2191-2192		2192-2193		2193-2194		2194-2195		2195-2196		2196-2197		2197-2198		2198-2199		2199-2200		2200-2201		2201-2202		2202-2203		2203-2204		2204-2205		2205-2206		2206-2207		2207-2208		2208-2209		2209-2210		2210-2211		2211-2212		2212-2213		2213-2214		2214-2215		2215-2216		2216-2217		2217-2218		2218-2219		2219-2220		2220-2221		2221-2222		2222-2223		2223-2224		2224-2225		2225-2226		2226-2227		2227-2228		2228-2229		2229-2230		2230-2231		2231-2232		2232-2233		2233-2234		2234-2235		2235-2236		2236-2237		2237-2238		2238-2239		2239-2240		2240-2241		2241-2242		2242-2243		2243-2244		2244-2245		2245-2246		2246-2247		2247-2248		2248-2249		2249-2250		2250-2251		2251-2252		2252-2253		2253-2254		2254-2255		2255-2256		2256-2257		2257-2258		2258-2259		2259-2260	
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1st CLASS.—SALINE SUBSTANCES.

XIV.	2. GENUS, BARYTES.	Trivial Name	Locality	Sp.gr.	Analyst	Baryf.					
			1. SP. SULPHATE	Heavy spar	Peggau	4.38	Klaproth	60.			
			Baroselenite	.	.	4.29	Withering	67.2			
			Ditto	New Jersey	4.41	Chilton	61.34				
			<i>Do testaceous</i>	Freyberg	.	Klaproth	97.5 s				
			<i>Do. compact</i>	.	.	Westrumb	83. s				
			Hepatit	Andrarum	4.12	Bergman	29.				
			Ditto	Ditto	.	Klaproth	85.25				
	Ditto	Ditto	.	John	92.75 s						
	Ditto	Kongsberg	.	Ditto	93.55 s						
	3. SP. CARBONATE.	Witherite	Anglesark	4.30	Klaproth	78.					
		Ditto	.	.	Vauquelin	74.5					
		Ditto	.	.	Pelletier	62.					
XV.	3. GEN. STRONTITES.					Stront.					
	1. SP. SULPHATE.	Celestine	Sicily	3.92	Vauquelin	54.					
		<i>Compact</i>	Mt. Martre	3.59	Ditto	91.42 s					
		<i>Ditto</i>	Bouvron	.	Ditto	83. s					
		<i>Fibrous</i>	Pensylvania	3.83	Klaproth	58.					
		.	Süntal	3.90	Stromeyer	97.2 s					
	2. SP. CARBONATE.	Strontianite	Argyleshire	3.67	Hope	61.21					
		Ditto	Ditto	.	Pelletier	62.					
		Ditto	Ditto	3.67	Klaproth	69.					
	XVI.	4. GEN. MAGNESIA.					Mag.				
		1. SP. NATIVE.	.	New Jersey	2.13	Bruce	70.				
.			.	.	Vauquelin	64.					
2. SP. CARBONATE.		Magnesite	Baudisero	.	Giobert	68.					
		Ditto	Steirmark	2.91	Klaproth	48.					
		Ditto	Hrubschitz	.	Mitchell	47.5					
		Ditto	Ditto	.	Wondrash	33.					
		Ditto	Ditto	.	Bucholz	48.					
		Ditto	Ditto	.	Ditto	46.59					
		.	Castelamonte	2.61	Guyton	26.3					
		Meerschbaum	Levant	.	Klaproth	15.25					
Ditto white		Ditto	1.60	Ditto	17.25						
3. SP. BORATE.	Pipehead	.	.	—	51.61						
	Boracite	Luneberg	2.56	Westrumb	13.5						
						Alum.					
XVII.	5. GEN. ALUMINE.										
						1. SP. SULPHATE.	Pure clay	Halle	1.67	Simon	32.5
							.	.	.	Bucholz	31.
							Kolyrite	Schemnitz	.	Klaproth	45.
							Alum stone	Hungary	.	Ditto	17.5
							Alum slate	Freywald	.	Ditto	16.
							.	Tolfa	.	Ditto	56.5
							.	Ditto	.	Vauquelin	43.92
							.	Greenland	2.94	Klaproth	24.
						2. SP. ALKAL. FLUATE.	Cryolite	Greenland	.	Vauquelin	21.
							.	Ditto	.	.	.

† With 2.8 sulph. 1.8 s. of

2d ORDER.—INSOLUBLE SALTS.

S. acid	C.acid	Silex	Alum.	Lime	Iron	Water	Loss	Other ingred.	Authority
30.	.	10.	.	.	.	.	.	.	No. 35
32.8	.	.	.	.	.	.	.	.	Thury
30.67	.	3.	.	.	1.	2.	.	s. stron.	Am. Jour.
.	.	.8	.05	.	.	.7	.	.85 ditto	No. 36
.	.	6.	1.	2.5	4.	2.	.	.	Gallizin
*	.	33.	5.	3.7	.	*	.	.	Klaproth
.	.	1.	.	6. s	5.	.	.	.	No. 190
.	.	.	.	2. s	1.5	1.25	.	2. bit. &c.	Leon. 12
.	.	.	.	3.58 s	.87	2.	.	s. stron.	Ditto
.	22.	.	.	.	.	.	.	.	No. 18
.	22.5	.	.	.	.	.	.	.	Thury
.	22.	.	.	.	.	16.	.	.	An. ch. 21

S. acid	C.acid	Lime	Iron	Water	Baryt	Silex	Loss	Other ingred.	
46.	.	.	.	.	.	.	.	.	Tab. com.
.	.	8.3 c	.25	.	.	.	.	.	Journal
.	.	10. c	6.	.	.	.	.	.	Ditto
42.	.	.	.12	.19	2.22s	.25	.	.	No. 49
.	.	.	.	.	.	.	.	.	Annals
.	30.2	.	.	8.59	.	.	.	.	Aikin
.	30.	.	.	8.	.	.	.	.	An. ch. 21
.	30.	.	.	.5	.	.	.	.	No. 18

Acid	Silex	Alum.	Lime	Iron	Mang	Water	Loss	Other ingred.	
.	.	.	.	.	.	30.	.	.	Am. Jour.
.	2.	.	.	2.5	.	29.	2.5	.	Journal
12. c	15.6	.	1.6 s	.	.	3.	.	.	Ditto
49. c	.	.	.	.	.	3.	.	.	No. 185
51. c	.	.	.	*	.	1.5	.	.	Journal
30. c	8.	.	.5	1.5	*	20.	.	.	Tab. com.
52. c	.	*	*	*	.	.	.	.	An. chim.
51. c	.16	1.	.	.25	*	1.	.	.	Ditto 74
46. c	14.2	.	.	*	.	12.	1.5	.	Ditto 47
7.8 c	41.	.	.5	.	.	32.2	.	.	No. 52
5. c	50.5	.	.5	.	.	25.	.	.	Ditto
.	54.16	.	.	.	.	.	.	.	Brochant
68. B	2.	1.	11.	.75	.	.	.	.	An. ch. 2

Acid	Silex	Lime	Iron	Potas.	Soda	Water	Loss	Other ingred.	
19.25 s	.45	.35 c	.45	.	.	47.	.	.	Tab. com.
21.5 s	1.	.5	.5	.	.	45.	.5	.	Thomson
.	14.	.	.	.	.	42.	.	.	No. 17
12.5 s	62.25	.	.	1.	.	5.	1.75	.	No. 150
.	40.	1.5 s	6.4	1.5 s	.	10.75	†	19.65 carbon	No. 151
16.5 s	19.	.	.	4.	.	3.	.	.	No. 150
25. s	24.	.	.	3.8	.	4.	.	.	Ditto
40. F	.	.	.	.	36.	*	.	.	No. 97
46. F	.	.	.	.	33.	*	.	.	An. ch. 37

iron, .5 m. of potash, .25 mag.

		Trivial Name	Locality.	Sp.gr.	Analyst	Silica
XVIII.	1. SP. QUARTZ.		.	2.65	Haüy	.
	a. Crystallised	Rock cristal	.	2.80	Tromsd.	100.
		Ditto	.	.	Bucholz	99.37
		Ditto	.	.	Berg	93.
		Ditto	.	.	Bucholz	97.75
	b. Purple	Amethyste	.	2.65	Rose	97.5
	c. Blue	False saphir	.	2.58	.	.
	d. Green	Prase	.	.	Bucholz	98.5
	e. Yellow	Scotch topaz	.	2.65	Haüy	.
	f. Rose	Milk quartz	.	2.67	Ditto	.
	g. Resplendent	Cats eye <i>white</i>	Ceylon	2.66	Klaproth	95.
		<i>brown</i>	Malabar	2.62	Ditto	94.5
	h. Hematitic	Hyacinthe of	Compostello	.	.	.
		Iron flint <i>red</i>	.	.	Bucholz	76.
		Ditto <i>brown</i>	.	.	Ditto	92.
		Ditto <i>yellow</i>	.	.	Ditto	93.5
	i. Flinty slate	.	.	.	.	.
	k. Scaly	Avanturine	.	.	.	.
	l. Granular, <i>Grey</i>	Sandstone	Hartz	.	Westrumb	68.
	<i>Green</i>	Ditto	Spessart	2.50	Klaproth	85.25
	<i>Reddish brown</i>	Ditto	Ilefeld	.	Westrumb	71.
	<i>Greenish yellow</i>	Ditto	Cantal	2.85	Langier	84.
	<i>Greenish brown</i>	Ditto	Autun	.	Vauquelin	74.
		Elastic quartz	Brasil	.	Klaproth	96.5
	m. Fibrous	.	Vorgebirge	.	Ditto	98.5
	n. Amorphous	.	.	2.58	Morveau	92.42
		.	.	.	Bucholz	99.75
	Pseudo quartz	After cristals	.	2.55	Guyton	92.42
XIX.	2. SP. CALCEDONY.					
	a. Stalactical	Com.calcedony	Faroe	2.66	Bergman	84.
		Ditto	Ditto	.	.	83.
	<i>Saphirine</i>	Ditto	Siberia	.	Tromsd.	100.
	b. White	Cachalong	.	.	.	.
	c. Coloured	Carnelian	.	2.61	Tromsd.	99.
		.	Siberia	.	Bindheim	94.
	d. Variegated	Agate	.	.	.	.
	e. Green	Heliotrop	Bohemia	2.60	Tromsd.	84.
		Ditto	Olympus	2.55	Klaproth	96.27
	f. Chrysoprase	Chrysoprase	Kosmutz	2.58	Ditto	96.17
	g. Massive	Hornstone	.	.	.	.
XX.	3. SP. OPAL.					
	a. Precious	Noble opal	Hungary	2.10	Klaproth	90.
	b. Hydrophanous	Oculus mundi	Saxony	.	Ditto	93.13
		Ditto	.	.	Weigleb.	82.9
		Ditto	Mussinet	.	Bonvoisin	60.

HY COMPOUNDS.

Alum	Lime	Mag.	Iron	Mang.	Alkali	Water	Loss	Other ingred.	Authority
.
.	.	.	.	.	.	.	.	.	Thomson
.	.	.	.	.	.	.	.	.	An. Ch. 70
6.	1.	.	.	.	.	.	.	.	Gallizin
.5	.	.	.	.	.	1.	.75	.	Thomson
.25	.	.	.5	.25	.	.	1.5	.	Tab. Com.
.
.5	.	.	1.	*	.	.	.	.	Jour. 27
.
.
1.75	1.5	.	.25	.	.	.	1.5	.	No. 5
2.	1.5	.	.25	.	.	.	1.75	.	Ditto
.
.25	.	.	21.5	.	.	1.	1.25	.	Thomson
.	.	.	5.75	1.	.	1.	.25	.	Ditto
.	.	.	5.	.	.	.	.	.	Jour. 27
.
.
25.	2.	.	4.	.	.	.	.	.	An. Ch. 4
1.	.	.	7.	.	.	5.	.	.	.
19.	7. c	.	9.5	.	.	.	.	1. baryte	An. Ch. 4
.	.	.	8.	.	.	7.	.	.	An. Ch. 69
2.	1.	1.	15.	.	.	4.	3.	.	Jour. 27
2.5	.	.	5.	.	.	.	.	.	No. 42
.	.	.	1.5	.	.	.	.	.	Leon. 12
6.3	1.55	.	.	.	.	.	.	.	Gallizin
.5	.	.	.	.	.	1.	.75	.	Thomson
.	3.55	2.	.	.	.	.	2.13	.	An. Ch. 30
16.	.	.	.	.	.	.	.	.	Thomson
2.	11.	.	*	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	An. Ch. 34
.
.
3.5	1.5	.	.	.	.	.	1.	.	Tab. Com.
.	.	.	.	.	.	.	1.	.	Gallizin
.
7.5	.	.	5.	.	.	.	1.5	.	Gallizin
.25	.	.	.5	.	.	2.5	.	.	No. 158
.08	.83	.	.08	.	.	.	1.84	1. nickel	No. 44
.
.
1.62	.	.	.	.	.	10.	.	.	No. 45
5.8	.	.	.	.	.	5.23	.	.	No. 36
33.77	3.5	.	.1	.	.	5.8	5.4	.	An. ch. 6
.	.	.	.25	.	.	.	.	.	Saussure

Year	Month	Day	Time	Place	Remarks
1875	Jan	1	10:00	St. Paul	Arrived
1875	Jan	2	10:00	St. Paul	Departed
1875	Jan	3	10:00	St. Paul	Arrived
1875	Jan	4	10:00	St. Paul	Departed
1875	Jan	5	10:00	St. Paul	Arrived
1875	Jan	6	10:00	St. Paul	Departed
1875	Jan	7	10:00	St. Paul	Arrived
1875	Jan	8	10:00	St. Paul	Departed
1875	Jan	9	10:00	St. Paul	Arrived
1875	Jan	10	10:00	St. Paul	Departed
1875	Jan	11	10:00	St. Paul	Arrived
1875	Jan	12	10:00	St. Paul	Departed
1875	Jan	13	10:00	St. Paul	Arrived
1875	Jan	14	10:00	St. Paul	Departed
1875	Jan	15	10:00	St. Paul	Arrived
1875	Jan	16	10:00	St. Paul	Departed
1875	Jan	17	10:00	St. Paul	Arrived
1875	Jan	18	10:00	St. Paul	Departed
1875	Jan	19	10:00	St. Paul	Arrived
1875	Jan	20	10:00	St. Paul	Departed
1875	Jan	21	10:00	St. Paul	Arrived
1875	Jan	22	10:00	St. Paul	Departed
1875	Jan	23	10:00	St. Paul	Arrived
1875	Jan	24	10:00	St. Paul	Departed
1875	Jan	25	10:00	St. Paul	Arrived
1875	Jan	26	10:00	St. Paul	Departed
1875	Jan	27	10:00	St. Paul	Arrived
1875	Jan	28	10:00	St. Paul	Departed
1875	Jan	29	10:00	St. Paul	Arrived
1875	Jan	30	10:00	St. Paul	Departed
1875	Jan	31	10:00	St. Paul	Arrived
1875	Feb	1	10:00	St. Paul	Departed
1875	Feb	2	10:00	St. Paul	Arrived
1875	Feb	3	10:00	St. Paul	Departed
1875	Feb	4	10:00	St. Paul	Arrived
1875	Feb	5	10:00	St. Paul	Departed
1875	Feb	6	10:00	St. Paul	Arrived
1875	Feb	7	10:00	St. Paul	Departed
1875	Feb	8	10:00	St. Paul	Arrived
1875	Feb	9	10:00	St. Paul	Departed
1875	Feb	10	10:00	St. Paul	Arrived
1875	Feb	11	10:00	St. Paul	Departed
1875	Feb	12	10:00	St. Paul	Arrived
1875	Feb	13	10:00	St. Paul	Departed
1875	Feb	14	10:00	St. Paul	Arrived
1875	Feb	15	10:00	St. Paul	Departed
1875	Feb	16	10:00	St. Paul	Arrived
1875	Feb	17	10:00	St. Paul	Departed
1875	Feb	18	10:00	St. Paul	Arrived
1875	Feb	19	10:00	St. Paul	Departed
1875	Feb	20	10:00	St. Paul	Arrived
1875	Feb	21	10:00	St. Paul	Departed
1875	Feb	22	10:00	St. Paul	Arrived
1875	Feb	23	10:00	St. Paul	Departed
1875	Feb	24	10:00	St. Paul	Arrived
1875	Feb	25	10:00	St. Paul	Departed
1875	Feb	26	10:00	St. Paul	Arrived
1875	Feb	27	10:00	St. Paul	Departed
1875	Feb	28	10:00	St. Paul	Arrived
1875	Feb	29	10:00	St. Paul	Departed
1875	Feb	30	10:00	St. Paul	Arrived
1875	Feb	31	10:00	St. Paul	Departed

XX.	3. SP. OPAL. <i>Contin.</i>	Trivial Name	Locality	Sp.gr.	Analyst	Silex
	<i>c.</i> Common yellow	Semiopal	Telkobania	1.90	Klaproth	93.5
	Milk white	.	Kosmutz	.	Ditto	98.75
	Grey	.	Mähren	2.02	Ditto	83.
		Feuer opal	Mexico	2.12	Ditto	92.
	<i>d.</i> Brown	Menilite	Menil mont.	2.18	Ditto	85.5
	<i>e.</i> Blue	.	.	.	.	.
	<i>f.</i> Stalactitical	Hyalite	Frankfort	.	Bucholz	92.
		.	.	.	Link.	57.
		Fibrous incr.	Geyzer	1.80	Klaproth	98.
XXI.	4. SP. FLINT.					
	<i>a.</i> Compact	Common flint	.	2.63	Klaproth	98.
		.	Ochabo, Pol.	.	Hacquet	92.75
	Flint	.	Pednigarb do	.	Ditto	92.75
		.	Dodromiel do	.	Ditto	92.5
		.	Studeno do	.	Ditto	97.
		.	Nudanto do	.	Ditto	89.
		.	.	.	Vauquelin	96.75
		White crust	.	.	Ditto	86.42
	<i>b.</i> Decomposed	Swimming st.	.	.	Ditto	98.
	<i>c.</i> Brown	Egypt. pebble	Egypt	2.88	Weigleb	74.58
XXII.	5. SP. JASPER.	.	.	2.71	Haüy	.
	<i>a.</i> Common	.	.	2.70	Kirwan	75.
		.	.	.	Ditto	80.
	<i>b.</i> Opal jasper	.	.	.	.	.
	<i>c.</i> Porcellaine jasper	.	.	.	Rose	60.75
XXIII.	6. SP. PITCHSTONE.	Olive green	Cantal	2.40	Bergman	78.
		.	Meisner	1.64	Klaproth	73.
		Blackish grey	Planitz	2.40	Bergman	59.
XXIV.	7. SP. PEARLSTONE.	.	Telkobania	2.34	Klaproth	75.25
		Pierre perlée	Cinapecuaro	2.54	Vauquelin	77.
		Marekanite	Siberia	2.36	Lowitz	74.
XXV.	8. SP. OBSIDIAN.	.	Hecla	.	Tromsdorf	63.
		.	.	2.34	Vauquelin	78.
		.	Mexico	2.90	Drapier	74.
		.	Ditto	.	Ditto	71.
		.	Ditto	.	Descostils	72.
XXVI.	9. SP. LAVA.					
	<i>a.</i> Compact	Lava	St. Venere	2.82	Kennedy	50.75
		.	Catania	2.79	Ditto	51.
	<i>b.</i> Vesicular	Pumice	Lipari	.	Klaproth	77.5
		.	.	.	Ditto	77.5
	<i>c.</i> Earthy	Moya	Quito	.	Ditto	46.5
		Volcan. ashes	Isle of France	.	Ditto	72.

† With 14.5 inches hyd. gas. and 2.

OMPOUNDS.

Alum	Lime	Mag.	Iron	Mang.	Alkali	Water	Loss	Other ingred.	Authority
.	.	.	1.	.	.	5.	.5	.	No. 48
.10	.	.	.10	.	.	.	1.5	.	No. 47
3.	.	.	1.75	.	*	8.	.	.33 bit. oil	No. 175
.	.	.	.25	.	.	7.75	.	.	No. 139
1.	.5	.	.5	.	.	11.	1.5	.	No. 50
.
*	.	.	.	.	.	6.33	1.66	.	An. ch. 73
18.	15.	.	3.	.	.	.	7.	.	Thomson
1.5	.	.	.5	.	.	.	.	.	No. 41
.
.25	.5	.	.25	.	.	.	.	.	No. 1
1.5	2.75	.51	1.	.	.	.	1.49	.	Journal 20
1.10	1.25	.	2.	.	.	.	2.9	.	An. ch. 64
.	3.	.	1.25	.75	.	.	2.5	.	Ditto
1.	.25	.	1.	.	.	.	.75	.	Ditto
2.	4.15	.	1.75	.	.	.	3.	.	Ditto
.25	.	.	.5	.	.	.	2.5	.	Thomson
.	9.88	.	1.23	.	.	.	2.47	.	Aikin
.	2.	.	.	.	.	.	.	.	.
15.4	.	5.	.	.	.	.	.	.	.
.
20.	.	.	5.	.	.	.	.	.	Gallizin
5.	2.	.	13.	.	.	.	.	.	Thury
.
27.25	.	3.	2.5	.	3.6 P	.	2.9	.	Thomson
3.	4.5	.	2.	.	3. S	.	2.5	.	Journal 16
14.5	1.	.	1.	.1	1.75 S	8.5	.	.	No. 102
18.5	4.	.	3.5	.	3. S	8.	.	.	Journal 16
12.	.5	.	1.6	.	4.5 P	4.5	.	.	No. 116
13.	1.5	.	*	3.	2. P	4.	.	.7 soda	An. ch. 55
12.	7.	3.	1.	.	.	.	3.	.	Gallizin
20.5	.	.	13.5	.	.	.	.	.	An. ch. 34
10.	1.	.	2.	1.6	6. P	.	1.4	.	Thomson
14.	1.2	.	*	3.	3.3 P	.	4.3	* soda	Ditto
13.4	1.	.	*	4.	4. P	.	6.	* ditto	Ditto
12.5	.	.	*	2.	10. P	.	3.5	* ditto	Ditto
17.5	10.	.	14.25	.	4. S	1.	.	.	Ed. Trans.
19.	9.5	.	14.5	.	4. S	1.	.	.	Ditto
17.5	.	.	1.75	*	.	.	3.25	.	No. 33
17.5	.	.	1.75	.	3. S	.	.	* potash	No. 103
11.5	6.25	.	6.5	.	2.5 S	11.	.	†	No. 138
2.5	.	.	2.5	.	.	21.	.	.	No. 154

.25 inches carb. acid.

Date		Description		Amount	
1891	Jan 1	Balance		100.00	
	Jan 10	Interest		1.00	
	Jan 20	Interest		1.00	
	Jan 30	Interest		1.00	
	Feb 10	Interest		1.00	
	Feb 20	Interest		1.00	
	Feb 28	Interest		1.00	
	Mar 10	Interest		1.00	
	Mar 20	Interest		1.00	
	Mar 30	Interest		1.00	
	Apr 10	Interest		1.00	
	Apr 20	Interest		1.00	
	Apr 30	Interest		1.00	
	May 10	Interest		1.00	
	May 20	Interest		1.00	
	May 30	Interest		1.00	
	Jun 10	Interest		1.00	
	Jun 20	Interest		1.00	
	Jun 30	Interest		1.00	
	Jul 10	Interest		1.00	
	Jul 20	Interest		1.00	
	Jul 30	Interest		1.00	
	Aug 10	Interest		1.00	
	Aug 20	Interest		1.00	
	Aug 30	Interest		1.00	
	Sep 10	Interest		1.00	
	Sep 20	Interest		1.00	
	Sep 30	Interest		1.00	
	Oct 10	Interest		1.00	
	Oct 20	Interest		1.00	
	Oct 30	Interest		1.00	
	Nov 10	Interest		1.00	
	Nov 20	Interest		1.00	
	Nov 30	Interest		1.00	
	Dec 10	Interest		1.00	
	Dec 20	Interest		1.00	
	Dec 30	Interest		1.00	
	Total			100.00	

		Trivial Name	Locality	Sp.gr.	Analyst	Silex
XXVII.	10. Sp. BASALT.	.	Staffa	.	Kennedy	48.
		.	Hassenberg	3.06	Klaproth	44.5
XXVIII.	11. Sp. BASALT TUFF	.	Calton Hill	.	Kennedy	50.
XXIX.	12. Sp. GREENSTONE	.	Salisb. craig	2.80	Kennedy	46.
XXX.	13. Sp. CLINKSTONE	.	Donnersbg.	2.57	Klaproth	57.25
		.	Auvergne	2.56	Bergman	58.
<hr/>						
XXXI.	14. Sp. ZIRCON.	Jargon	Ceylon	4.62	Klaproth	31.5
		.	Ditto	.	Ditto	26.5
		.	India	4.48	Ditto	32.5
		Hyacinth	Ceylon	4.58	Ditto	25.
		.	Ditto	4.38	Vauquelin	32.
		.	Expailie	.	Ditto	31.
		Zirconite	Norway	4.48	Klaproth	35.
		.	Fk. Schwerin	.	John	34.
XXXII.	15. Sp. CORUNDUM.	.	.	3.99	Haüy	.
	a. Perfect	Saphir	Oriental	3.95	Klaproth	.
		Ditto	Ditto	4.01	Chenevix	5.25
		Oriental ruby	Ditto	3.97	Ditto	7.
	b. Imperfect	Adamant. sp.	Carnatic	3.93	Ditto	5.
		.	Ava	.	Ditto	6.5
		.	Malabar	.	Ditto	7.
		Demant spath.	China	.	Ditto	5.25
		.	Ditto	3.71	Klaproth	6.5
		.	Bengal	.	Ditto	5.5
		.	Piemont	3.97	Vauquelin	4.8
	c. Granular	Emery	Naxos	4.	Tennant	8.
		Do. §	Ditto	.	Ditto	3.
		.	Jersey	.	Vauquelin	.
		.	Ditto	.	Ditto	12.66
	d. Amorphous	.	Madras	.	.	.
XXXIII.	16. Sp. CHRYSOBERIL	.	Brasil	3.71	Klaproth	18.
		.	Ditto	.	Achard	15.
XXXIV.	17. Sp. SPINEL.	Spinel ruby	.	3.76	Vauquelin	.
		.	Ceylon	3.57	Klaproth	15.5
		Pleonaste	Ditto	3.79	Descostils	2.
		Blue spinel	Akers, Swed.	3.68	Berzelius	5.48
		Automolite	Fahlun	4.69	Ekeberg	4.75
		Ditto	Ditto	.	Vauquelin	4.

§ Freed from magnetic iron.

† With 1.

Y COMPOUNDS.

Alum	Lime	Mag.	Iron	Mang.	Alkali	Water	Loss	Other ingred.	Authority
16.	9.	.	16.	.	4. s	5.	.	1. m. acid	Ed. Trans
16.75	9.5	2.25	20.	.12	2.6 s	2.	.	.	No. 101
18.5	3.	.	16.75	,	4. s	.	5.	1. m. acid	Ed. Trans.
19.	8.	.	17.	.	3.5 s	4.	1.5	1. m. acid	Ditto
23.5	2.75	.	3.25	.25	1.10 s	3.	.	.	No 100
24.5	3.5	.	4.5	.	6. s	2.	1.5	.	Journal 16
.	.	.	.5	.	.	.	.	68. zirconia	No. 12
.	.	.	.5	.	.	.	.	69. ditto	Ditto
.	.	.	1.5	.	.	.	.	64.5 ditto	No. 192
.	.	.	.5	.	.	.	4.5	70. ditto	No. 13
.	.	.	2.	.	.	.	2.	64.5 ditto	An. ch. 22
.	.	.	1.5	.	.	.	2.	65.5 ditto	Ditto
.	.	1.	.	.	.	.	.	65. ditto	No. 104
.	.	.	.25	.	.	.	.	64. ditto †	Annals
98.5	.5	.	1.	.	.	.	.	.	No. 4
92.	.	.	1.	.	.	.	1.75	.	P. Trans.
90.	.	.	1.2	.	.	.	1.8	.	Ditto
91.	.	.	1.5	.	.	.	2.5	.	Ditto
87.	.	.	4.5	.	.	.	2.	.	Ditto
86.5	.	.	4.	.	.	.	2.5	.	Ditto
86.5	.	.	6.5	.	.	.	1.75	.	Ditto
84.	.	.	7.5	.	.	.	2.	.	No. 2
89.5	.	.	1.25	.	.	.	3.75	.	Ditto
92.	.	.	2.4	.	.	.	.8	.	Journal
50.	.	.	32.	.	.	.	.	4. residue	P. Trans.
80.	.	.	4.	.	.	.	.	3. ditto	Ditto
70.	.	.	30.	.	.	.	.	.	Brong.
53.63	1.66	.	24.66	.	.	.	7.19	.	Tab. com.
.
71.5	6.	.	1.5	.	.	.	3.	.	No. 6.
64.	17.	.	1.	.	.	.	.	.	Journal
82.47	.	8.75	.	.	.	.	2.57	6.18 chr. acid	Ditto
74.5	.75	8.25	1.5	.	.	.	.	.	No. 27
68.	.	12.	16.	.	.	.	2.	.	Journal
72.25	.	14.63	4.26	.	.	.	1.55	1.83 residue	Leon. 11
60.	.	.	9.25	.	.	.	1.75	24.25 zinc	Tab. com.
42.	.	.	5.	.	.	.	.	28. ditto †	Ditto

titanium.

† With 17. sulph.

Station	Area	Volume	Weight	Specific Gravity	Moisture Content	Compaction
1	100	100	100	100	100	100
2	100	100	100	100	100	100
3	100	100	100	100	100	100
4	100	100	100	100	100	100
5	100	100	100	100	100	100
6	100	100	100	100	100	100
7	100	100	100	100	100	100
8	100	100	100	100	100	100
9	100	100	100	100	100	100
10	100	100	100	100	100	100
11	100	100	100	100	100	100
12	100	100	100	100	100	100
13	100	100	100	100	100	100
14	100	100	100	100	100	100
15	100	100	100	100	100	100
16	100	100	100	100	100	100
17	100	100	100	100	100	100
18	100	100	100	100	100	100
19	100	100	100	100	100	100
20	100	100	100	100	100	100
21	100	100	100	100	100	100
22	100	100	100	100	100	100
23	100	100	100	100	100	100
24	100	100	100	100	100	100
25	100	100	100	100	100	100
26	100	100	100	100	100	100
27	100	100	100	100	100	100
28	100	100	100	100	100	100
29	100	100	100	100	100	100
30	100	100	100	100	100	100
31	100	100	100	100	100	100
32	100	100	100	100	100	100
33	100	100	100	100	100	100
34	100	100	100	100	100	100
35	100	100	100	100	100	100
36	100	100	100	100	100	100
37	100	100	100	100	100	100
38	100	100	100	100	100	100
39	100	100	100	100	100	100
40	100	100	100	100	100	100
41	100	100	100	100	100	100
42	100	100	100	100	100	100
43	100	100	100	100	100	100
44	100	100	100	100	100	100
45	100	100	100	100	100	100
46	100	100	100	100	100	100
47	100	100	100	100	100	100
48	100	100	100	100	100	100
49	100	100	100	100	100	100
50	100	100	100	100	100	100
51	100	100	100	100	100	100
52	100	100	100	100	100	100
53	100	100	100	100	100	100
54	100	100	100	100	100	100
55	100	100	100	100	100	100
56	100	100	100	100	100	100
57	100	100	100	100	100	100
58	100	100	100	100	100	100
59	100	100	100	100	100	100
60	100	100	100	100	100	100
61	100	100	100	100	100	100
62	100	100	100	100	100	100
63	100	100	100	100	100	100
64	100	100	100	100	100	100
65	100	100	100	100	100	100
66	100	100	100	100	100	100
67	100	100	100	100	100	100
68	100	100	100	100	100	100
69	100	100	100	100	100	100
70	100	100	100	100	100	100
71	100	100	100	100	100	100
72	100	100	100	100	100	100
73	100	100	100	100	100	100
74	100	100	100	100	100	100
75	100	100	100	100	100	100
76	100	100	100	100	100	100
77	100	100	100	100	100	100
78	100	100	100	100	100	100
79	100	100	100	100	100	100
80	100	100	100	100	100	100
81	100	100	100	100	100	100
82	100	100	100	100	100	100
83	100	100	100	100	100	100
84	100	100	100	100	100	100
85	100	100	100	100	100	100
86	100	100	100	100	100	100
87	100	100	100	100	100	100
88	100	100	100	100	100	100
89	100	100	100	100	100	100
90	100	100	100	100	100	100
91	100	100	100	100	100	100
92	100	100	100	100	100	100
93	100	100	100	100	100	100
94	100	100	100	100	100	100
95	100	100	100	100	100	100
96	100	100	100	100	100	100
97	100	100	100	100	100	100
98	100	100	100	100	100	100
99	100	100	100	100	100	100
100	100	100	100	100	100	100

		Trivial Name	Locality	Sp.gr.	Analyst.	Silic.
XXXV.	18 Sp. TOPAZ.	.	Saxony	.	Bergman	39.
		.	Ditto	.	Vauquelin	31.
		.	Ditto	3.54	Klaproth	35.
		.	Ditto	.	Vauquelin	29.
		.	Brasil	3.54	Klaproth	44.5
		.	Ditto	.	Vauquelin	29.
		.	Ditto	.	Ditto	28.
		.	Siberia	3.53	Ditto	30.
		.	Cairngoram	3.56	.	.
	1 Appendix	Pycnite	Altenberg	.	Bucholz	34.
		.	Ditto	3.48	Klaproth	43.
		.	.	.	Vauquelin	30.
		.	.	.	Ditto	36.
	2 Appendix	Pyrophyssallite	Finbo	3.54	Hisinger	32.88
XXXVI.	19 Sp. EMERALD.	Precious	Peru	2.77	Klaproth	66.25
		.	Ditto	.	Vauquelin	64.6
		.	Ditto	.	Klaproth	68.5
		Beril	Siberia	.	Vauquelin	68.
		.	Nertschinsk.	2.75	Klaproth	66.45
		.	.	.	Gmelin	54.75
		Blue var.	Siberia	.	Schaub.	66.5
XXXVII.	20 Sp. EUCLASE.	.	Brasil	3.06	Vauquelin	35.
XXXVIII.	21 Sp. GARNET.	.	.	4.	Haüy	.
	a. Precious	.	Syrian	4.08	Klaproth	35.75
		.	Ditto	.	Vauquelin	36.
		Pyrop	Bohemia	3.71	Klaproth	40.
		.	Greenland	.	Tromsdorf	50.
		.	Ditto	.	Gruner	30.75
		.	Ditto	3.52	Klaproth	43.
		Cinnamon st.	Ceylon	.	Lampad.	42.8
		.	Ditto	3.62	Klaproth	38.8
	b. Common	Red	Eredlitz	.	Vauquelin	52.
		Brown	Langbans.	3.84	John	35.2
		Amorphous	Corsica	4.55	Vauquelin	38.
	c. Black	Melanite	Frescati	3.73	Klaproth	35.5
		.	Ditto	.	Vauquelin	34.
		.	Eredlitz	.	Ditto	43.
		.	Svapavara	.	Hisinger	34.53
	d. Olive green	.	Siberia	3.37	Klaproth	44.
		.	Saxony	.	Weigleb	36.5
		Aplome	Riv. Lena	3.44	Laugier	40.
		Allochromite	Vioms	3.5	Vauquelin	35.
		.	Ditto	.	Rose	37.
	e. Granular]	Colophonite	Arendahl	.	Simon	35.
	f. Manganesian	.	Spessart	3.6	Klaproth	35.

† With 3.5 chrome

‡ With .3 chrome.

POUNDS:

Alum	Lime	Mag.	Iron	Mang.	Alkali	Water	Loss	Other ingred.	Authority
46.	8.	.	6.	.	.	.	.	.	Journal
68.	.	.	.	.	.	.	1.	.	Ditto
59.	.	.	*	.	.	.	1.	5. f. acid	No. 140
49.	.	.	.	.	.	.	2.	20. ditto	Thomson
47.5	.	.	.5	.	.	.	.	7. ditto	No. 140
50.	.	.	.	.	.	.	2.	19. ditto	Thomson
47.	.	.	4.	.	.	.	4.	17. ditto	Ditto
48.	.	.	2.	.	.	.	2.	18. ditto	Ditto
.
48.	.	.	.	.	.	.	.	17. ditto	Klap. 180
49.5	.	.	1.	.	.	1.	1.3	4. f. acid	Ditto
60.	2.	.	.	.	.	1.	1.	6. ditto	Brong.
52.6	3.3	.	.	.	.	.	1.5	5.8 ditto	Thomson
53.25	.88	.	.88	*	.	.	11.36	.75 calcin.	An. Ch. 58
31.25	.	.	.5	.	.	.	.	.	No. 28
14.	2.56	.	.	.	.	2.	.	13. glucin +	An. Ch. 20
15.75	.25	.	1.	.	.	.	.	12.5 glucin +	.
15.	2.	.	1.	.	.	.	.	14. glucin	Journal
16.75	.	.	.6	.	.	.	.	15.5 ditto	No. 98
24.41	.	.	1.5	.	.	2.	1.9	15.4 ditto	An. Ch. 44
16.75	*	.	1.	.	.	.	.75	15. ditto	Ditto
22.	.	.	3.	.	.	.	.28	12. ditto	Journal 10
.
27.25	.	.	36.	.25	.	.	.	.	No. 30
22.	3.	.	41.	.	.	.	.	.	Tab. com.
28.5	3.5	10.	16.5	.25	.	.	.	.	No. 29
28.	.	.	6.	.	.	.	6.	10. zircon	Klap. 193
30.5	7.	.	16.	.	.	2.	2.75	11. ditto	Ditto
15.5	1.75	8.5	29.5	.5	.	.	.	.	Ditto
8.6	3.8	.	3.	.	6. f	2.6	4.4	28.8 zircon	Ditto 194
21.2	31.25	.	6.5	.	.	.	2.25	.	Ditto
20.	7.7	.	17.	.	.	.	3.3	.	Tab. com.
.2	24.7	.	26.	8.6	1.05 s	.	2.25	2. sulph.	Leon. 12
20.	31.	.	10.	5.	.	.	1.	.	Thomson
6.	32.5	.	24.25	.4	.	.	.	.	No. 199
6.4	33.	.	25.5	*	.	.	1.1	.	Haüy
16.	20. c	.	16.	.	.	4.	1.	.	Journal
1.	34.26	.	36.05	.	.	.5	3.56	.	Leon. 11
8.5	33.5	.	12.	*	.	.	2.	.	No. 157
.	30.8	.	28.7	.	.	4.	.	* c. acid	An. Ch. 1
20.	14.5	.	14.	2.	.	.	5.	2. calcin. §	Ditto 71
8.	30.5	.	17.	3.5	.	.	.	6. c. acid	Aikin
5.	30.	.	18.5	6.25	.	.	.	.	Ditto
15.	29.	6.5	7.5	4.75	.	1.	.75	0.1 titan.	Tab. com.
14.25	.	.	14.	35.	.	.	.	.	No. 60.

§ With 2. Silix and Iron mixed.

Year	Month	Day	Particulars	Debit	Credit	Balance
1880	Jan	1	Balance forward			100.00
1880	Jan	2	To Cash	50.00		150.00
1880	Jan	3	By Cash		25.00	125.00
1880	Jan	4	To Cash	75.00		200.00
1880	Jan	5	By Cash		10.00	190.00
1880	Jan	6	To Cash	30.00		220.00
1880	Jan	7	By Cash		5.00	215.00
1880	Jan	8	To Cash	40.00		255.00
1880	Jan	9	By Cash		15.00	240.00
1880	Jan	10	To Cash	60.00		300.00
1880	Jan	11	By Cash		20.00	280.00
1880	Jan	12	To Cash	50.00		330.00
1880	Jan	13	By Cash		10.00	320.00
1880	Jan	14	To Cash	30.00		350.00
1880	Jan	15	By Cash		5.00	345.00
1880	Jan	16	To Cash	40.00		385.00
1880	Jan	17	By Cash		15.00	370.00
1880	Jan	18	To Cash	60.00		430.00
1880	Jan	19	By Cash		20.00	410.00
1880	Jan	20	To Cash	50.00		460.00
1880	Jan	21	By Cash		10.00	450.00
1880	Jan	22	To Cash	30.00		480.00
1880	Jan	23	By Cash		5.00	475.00
1880	Jan	24	To Cash	40.00		515.00
1880	Jan	25	By Cash		15.00	500.00
1880	Jan	26	To Cash	60.00		560.00
1880	Jan	27	By Cash		20.00	540.00
1880	Jan	28	To Cash	50.00		590.00
1880	Jan	29	By Cash		10.00	580.00
1880	Jan	30	To Cash	30.00		610.00
1880	Jan	31	By Cash		5.00	605.00
1880	Feb	1	Balance forward			605.00
1880	Feb	2	To Cash	50.00		655.00
1880	Feb	3	By Cash		25.00	630.00
1880	Feb	4	To Cash	75.00		705.00
1880	Feb	5	By Cash		10.00	695.00
1880	Feb	6	To Cash	30.00		725.00
1880	Feb	7	By Cash		5.00	720.00
1880	Feb	8	To Cash	40.00		760.00
1880	Feb	9	By Cash		15.00	745.00
1880	Feb	10	To Cash	60.00		805.00
1880	Feb	11	By Cash		20.00	785.00
1880	Feb	12	To Cash	50.00		835.00
1880	Feb	13	By Cash		10.00	825.00
1880	Feb	14	To Cash	30.00		855.00
1880	Feb	15	By Cash		5.00	850.00
1880	Feb	16	To Cash	40.00		890.00
1880	Feb	17	By Cash		15.00	875.00
1880	Feb	18	To Cash	60.00		935.00
1880	Feb	19	By Cash		20.00	915.00
1880	Feb	20	To Cash	50.00		965.00
1880	Feb	21	By Cash		10.00	955.00
1880	Feb	22	To Cash	30.00		985.00
1880	Feb	23	By Cash		5.00	980.00
1880	Feb	24	To Cash	40.00		1020.00
1880	Feb	25	By Cash		15.00	1005.00
1880	Feb	26	To Cash	60.00		1065.00
1880	Feb	27	By Cash		20.00	1045.00
1880	Feb	28	To Cash	50.00		1095.00
1880	Feb	29	By Cash		10.00	1085.00
1880	Feb	30	To Cash	30.00		1115.00
1880	Feb	31	By Cash		5.00	1110.00

		Trivial Name	Locality	Sp.gr.	Analyst	Silic
XXXIX.	22. Sp. LEUCITE.	White garnet	Vesuvius	2.45	Klaproth	53.75
		.	Albano	2.49	Ditto	54.23
		.	Pompeji	.	Ditto	54.5
		.	.	.	Vauquelin	56.
XL.	23. Sp. VESUVIAN.	Idocrase	Vesuvius	2.42	Klaproth	35.5
		Wilonite	Siberia	3.39	Ditto	42.
XLI.	24. Sp. MEIONITE.	.	Somma	3.27	Vauquelin	46.
XLII.	25. Sp. FELSPAR.					
	<i>a. Common</i>	Petunze	.	.	Vauquelin	74.
		.	Finbo	.	Hedenberg	72.75
		.	Carnatic §	2.64	Chenevix	64.
		.	Piémont §	.	Vauquelin	62.4
		<i>In grains</i>	Ceylon	.	Chenevix	68.5
		Indianite	Carnatic	.	Ditto	42.5
	<i>b. Resplendent</i>	Adularia	.	2.56	Vauquelin	64.
		.	Drachenfels	2.57	Klaproth	68.
	<i>c. Opalescent</i>	Labradore sto.	Labradore	2.69	Bindheim	96.5
		.	.	.	Gerrard	62.
	<i>d. Green</i>	Amazon stone	Siberia	2.70	Vauquelin	62.83
	<i>e. Blue</i>	.	Kreiglach	3.04	Klaproth	14.
		Siderite	WerfenSalzb.	.	Tromsdorf	10.
	<i>f. Compact</i>	Hornstone	Lorraine	.	Kirwan	72.
		.	.	.	St. Memin	68.
		Gabronite	Norway	.	John	54.
	<i>g. Tough</i>	Jade de Sauss.	Switzerland	3.34	Saussure	44.
		Ditto	.	3.20	Klaproth	49.
		.	.	.	Hæpfner	47.
		Nephrite	Oriental	2.95	Saussure	53.75
		.	.	.	Kastner	50.5
	<i>h. Decomposed</i>	Kaolin	.	2.20	Vauquelin	71.15
		Feldsp. <i>Broyé</i>	St Yrieux	.	Hassenf.	70.
		Porcell. earth	Ditto	.	Ditto	61.
		.	.	.	Vauquelin	55.
XLIII.	26. Sp. SODALITE.	.	Græneland	.	Bekeberg	36.
		.	Ditto	.	Thomson	38.52
XLIV.	27. Sp. NATROLITE.	.	Hæn-Twiel	2.2	Klaproth	48.
XLV.	28. Sp. SPODUMENE.	Triphane	Sweden	2.28	Vauquelin	64.4
		.	.	.	Berzelius	67.5
		.	.	.	Hisinger	63.4
XLVI.	29. Sp. AXINITE.	Thumerstone	St Christoph.	.	Klaproth	52.7
		.	.	.	Ditto	50.5
		.	.	.	Vauquelin	44.

§ Accompanying the corundum of Carnatic and Piémont.

COMPOUNDS.

Alum	Lime	Mag.	Iron	Mang.	Alkali	Water	Loss	Other ingred.	Authority
24.62	.	.	.	.	21. P	.	.28	.	No. 32
22.	.	.	.	.	22. P	.	1.	.	Ditto
23.5	.	.	.	.	19.5 P	.	2.5	.	Ditto
20.	2.	.	.	.	20. P	.	1.	.	Thomson
22.25	33.	.	7.5	.25	.	.	1.5	.	No. 31
16.25	34.	.	5.5	*	.	.	2.25	.	Ditto
49.	2.	.	1.	.	.	.	.	.	Thomson
14.5	5.5	.	.	.	.	.	6.	.	Tab. com.
13.	9.5	.	1.	.	.	.25	3.5	.	Leon. 11
24.	6.25	.	2.	.	.	.	3.75	.	P. Trans.
17.	1.2	.	4.	.	.	15.4 ‡	.	.	Journal
20.5	7.	.	1.5	.	.	.	2.5	.	P. Trans.
37.5	15.	.	3.	*	.	.	.	.	Bourneon
20.	2.	.	.	.	14. P	.	.	.	Tab. com.
15.	.	.	.5	.	14.5 P	.	2.	.	No. 171
13.6	12.5	.	3.	.	.	.	3.9	.7 copper	Thomson
30.	.	.	4.	.	.	4.	.	.	Ditto
17.02	3.	.	.	.	16. P	.	.15	.	An. Ch. 30
71.	3.	5.	.75	.	.	5.	.	.25 chrome	No. 153
66.	2.	18.	2.5	.	.	.	1.5	.	An. Ch. 62
22.	6.	.	.	.	.	.	.	.	Gallizin
9.	1.	.	4.	.	5.55 P	2.25	.2	.	Tab. com.
24.	.	1.5	1.25	*	17.25 †	2.	.	.	Annals
30.	4.	.	12.25	.05	.25 P	.	3.2	6. soda	Ditto
24.	10.5	3.75	6.5	.	.	.	.	5.5 ditto	No. 152
4.	2.	38.	9.	.	.	.	.	.	Ditto
1.5	12.76	.	5.	2.	8.5 P	2.25	3.5	10.75 soda	Tab. com.
10.	.	31.	5.5	.	.	2.75	2.	.05 chrome	Ditto
15.86	1.92	.	.	.	.	6.73	4.34	.	Ditto
12.	.	9.	.	.	.	.	.	8. baryte	An. Ch. 14
19.	12.	.	.	.	.	.	.	7. ditto	Ditto
27.	2.	.	5.	.	.	14.	.	.	Thomson
32.	.	.	.25	.	25. S	.	.	6.75 m. acid	Letter
27.48	2.70	.	1.	.	23.5 S	2.1	1.7	3. ditto	Ed. Trans.
24.25	.	.	1.75	.	16.5 S	9.	.	.	No. 179
24.4	3.	.	2.2	.	5. P	.	1.	.	Tab. com.
27.	.63	.	3.	.	.	.	1.34	.53 vol.mat.	Leon. 12
29.4	.75	.	3.	.	.	.	2.92	.53 ditto	Ditto
25.6	9.4	.	9.6	.	.	.	2.7	.	No. 43
16.	17.	.	9.5	.25	.25 P	.	.	.	No. 174
18.	19.	.	14.	4.	.	.	1.	.	Tab. com.

† Potash and soda.

‡ Water and perhaps potash.

Year	Month	Day	Time	Place	Event	Remarks
1900	Jan	1	10:00	St. Paul	Arrived	From St. Louis
1900	Jan	2	10:00	St. Paul	Departed	For St. Louis
1900	Jan	3	10:00	St. Paul	Arrived	From St. Louis
1900	Jan	4	10:00	St. Paul	Departed	For St. Louis
1900	Jan	5	10:00	St. Paul	Arrived	From St. Louis
1900	Jan	6	10:00	St. Paul	Departed	For St. Louis
1900	Jan	7	10:00	St. Paul	Arrived	From St. Louis
1900	Jan	8	10:00	St. Paul	Departed	For St. Louis
1900	Jan	9	10:00	St. Paul	Arrived	From St. Louis
1900	Jan	10	10:00	St. Paul	Departed	For St. Louis
1900	Jan	11	10:00	St. Paul	Arrived	From St. Louis
1900	Jan	12	10:00	St. Paul	Departed	For St. Louis
1900	Jan	13	10:00	St. Paul	Arrived	From St. Louis
1900	Jan	14	10:00	St. Paul	Departed	For St. Louis
1900	Jan	15	10:00	St. Paul	Arrived	From St. Louis
1900	Jan	16	10:00	St. Paul	Departed	For St. Louis
1900	Jan	17	10:00	St. Paul	Arrived	From St. Louis
1900	Jan	18	10:00	St. Paul	Departed	For St. Louis
1900	Jan	19	10:00	St. Paul	Arrived	From St. Louis
1900	Jan	20	10:00	St. Paul	Departed	For St. Louis
1900	Jan	21	10:00	St. Paul	Arrived	From St. Louis
1900	Jan	22	10:00	St. Paul	Departed	For St. Louis
1900	Jan	23	10:00	St. Paul	Arrived	From St. Louis
1900	Jan	24	10:00	St. Paul	Departed	For St. Louis
1900	Jan	25	10:00	St. Paul	Arrived	From St. Louis
1900	Jan	26	10:00	St. Paul	Departed	For St. Louis
1900	Jan	27	10:00	St. Paul	Arrived	From St. Louis
1900	Jan	28	10:00	St. Paul	Departed	For St. Louis
1900	Jan	29	10:00	St. Paul	Arrived	From St. Louis
1900	Jan	30	10:00	St. Paul	Departed	For St. Louis
1900	Jan	31	10:00	St. Paul	Arrived	From St. Louis

		Trivial Name	Locality	Sp.gr.	Analyst.	Silic	
XLVII.	30 Sp. TOURMALINE.						
		1. Common	.	3.36	Haüy	.	
		.	Eibenstock	3.22	Klaproth	36.75	
		.	Spessart	3.08	Ditto	36.5	
		Com. school	.	.	Weigleb	33.35	
		Ditto	.	.	Gerhard	38.	
		Ditto	St Gothard	.	Bucholz	36.5	
		Ditto	Ditto	.	Ditto	35.	
		Ditte	Tyrol	.	Ditto	35.5	
		2. Green	.	3.36	Vauquelin	40.	
		.	Brasil	3.15	Bergman	37.	
		3. Blue	Indicolite	.	.	.	
		4. Red	Rubellite	Siberia	.	Herman	47.
		.	Ditto	2.87	Vauquelin	47.27	
		XLVIII.	31. Sp. AMPHIBOLE.				
a. Crystallised	Hornblend			Cap de Gate	2.25	Laugier	42.
.	Basaltic ditto			Fuldischen	3.15	Klaproth	47.
.	.			.	3.33	Bergman	58.
.	Actinolite			Zillerthall	3.33	Laugier	50.
.	Com.hornblen.			Nora	3.24	Klaproth	42.
.	.			.	.	Kirwan	37.
.	.			.	.	Herman	37.
b. Radiated	Actinolite			.	.	Bergman	72.
.	.			.	.	Ditto	54.
c. Acicular	Amianthoïde			Oisans	3.45	Vauquelin	47.
.	Absestous act.			Cornwall	2.91	Thomson	33.4
.
.
XLIX.	32. Sp. HYPERSTÈNE						
		Labrad. hornb.	.	3.39	Klaproth	54.25	
		Anthophyllite	Kongsberg	3.29	John	62.68	
		.	.	.	Ditto	56.	
		
		.	Etna	3.22	Vauquelin	52.	
		.	Ditto	.	Tromsdorf	54.	
		.	Frascati	3.40	Klaproth	48.	
		.	Rhineberg	3.33	Ditto	52.	
		.	Ditto <i>green</i>	3.28	Ditto	55.	
		.	Arendahl	3.6	Roux	45.	
		.	Ditto	.	Simon	52.	
		Foliated	Carinthia	3.08	Klaproth	52.5	
		Slaggy	Sicily	2.66	Ditto	55.	
		L.	33. Sp. AUGITE.				
a. Crystallised	.			.	.	.
.	Etna			3.22	Vauquelin	52.	
.	Ditto			.	Tromsdorf	54.	
.	Frascati			3.40	Klaproth	48.	
.	Rhineberg			3.33	Ditto	52.	
.	Ditto <i>green</i>			3.28	Ditto	55.	
.	Arendahl			3.6	Roux	45.	
.	Ditto			.	Simon	52.	
Foliated	Carinthia			3.08	Klaproth	52.5	
Slaggy	Sicily			2.66	Ditto	55.	
Mussite	Piémont			.	Laugier	57.	
c. Compact	Cocolite			Arendahl	2.37	Vauquelin	50.
.	Lherzolite			.	Vogel	45.	

† With 3.84 Tunst

Y COMPOUNDS.

Alum	Lime	Mag.	Iron	Mang.	Alkali	Water	Loss	Other ingred.	Authority
34.5	.	.25	21.	.	6.	.	.	.	No. 195
31.	.	1.25	23.5	*	5.5	.	.	.	Ditto
48.83	.	.	21.41	3.33	.	.	3.1	.	Thomson
20.	20.	.	19.	.	.	.	3.	.	Ditto
33.75	.25	6.08	8.	*	.	1.5	13.92	.	Leon. 13
31.5	.06	5.94	6.12	.	.	2.	19.25	.	Ditto
33.25	.5	9.3	5.10	.	.	.	16.35	.	Ditto
39.	3.84	.	12.5	2.	.	.	2.66	.	Journal
39.	15.	.	9.	.	.	.	.	.	Ditto
.
28.	7.	10.	.	2.	.	.	6.	.	Gallizin
45.46	1.78	.	.	5.49	.	.	.	.	Lucas
40.	.	.	*	7.	10.	.	1.	.	No. 170
30.	.	.	*	13.	10.	.	2.	.	Ditto
42.25	.1	.	.	1.5	9.	1.25	.	.	No. 183
45.25	1.	.	*	2.	7.22	4.	1.2	.	Leon 10
7.69	9.8	10.9	22.69	1.15	.	1.92	3.85	.	Tab. com.
26.	8.	2.	15.	.	.	.5	1.5	.	No. 196
27.	4.	1.	9.	.	.	.	1.	.	Brong.
.75	9.75	19.25	11.	.	.	3.	1.25	5. chrom.	An. ch. 66
12.	11.	2.25	30.	.35	*	.75	.	.	No. 196
22.	2.	16. c	15.	.	.	.	3.	.	Kirwan
27.	5.	3.	35.	.	.	.	.	.	Thury
2.	6.	12.	7.	.	.	.	.	.	Ditto
27.	.33	20.	4.	.	.	.	.	.	Ditto
.	11.3	7.3	20.	10.	.	.	4.4	.	Tab. com.
28.2	1.05	.6	17.15	7.2	3.8	1.7	2.06	.1 copper+	An. ch. 212
2.25	1.5	14.	24.5	*	.	1.	2.5	.	No. 177
13.33	3.33	4.	12.	3.25	.	.	1.43	.	No. 215
13.3	3.33	14.	6.	3.	.	1.43	.	.	Leon. 1812
3.83	13.2	10.	14.66	2.	.	.	4.49	.	An. ch. 30
3.05	16.2	14.	7.	2.	5.18	.	.	.	Thomson
5.	24.	8.75	12.	1.	*	.	1.25	.	Ditto
5.75	14.	12.75	12.75	.25	*	.	.25	.	No. 197
5.5	12.5	13.75	11.	.	*	1.	.	.	Ditto
3.	30.5	.	16.	5.	.	.	.5	.	Journal
3.5	25.5	7.	10.5	2.25	.	.5	.	.	Tab. com.
7.25	9.	12.5	16.35	.	.5	.	.	.	No. 142
16.5	10.	1.75	13.75	.	.	.	1.5	.	No. 143
.	16.5	18.25	6.	*	.	.	2.25	.	No. 177
1.5	24.	10.	7.	3.	.	.	4.5	.	Tab. com.
1.	19.5	16.	12.	*	.	.	6.	.5 chrom.	Jour. 199

ic acid.

Year	Month	Day	Time	Place	Remarks
1890	Jan	1	10:00	St. Paul	Arrived from New York
1890	Jan	2	10:00	St. Paul	Left for Chicago
1890	Jan	3	10:00	Chicago	Arrived from St. Paul
1890	Jan	4	10:00	Chicago	Left for New York
1890	Jan	5	10:00	New York	Arrived from Chicago
1890	Jan	6	10:00	New York	Left for St. Paul
1890	Jan	7	10:00	St. Paul	Arrived from New York
1890	Jan	8	10:00	St. Paul	Left for Chicago
1890	Jan	9	10:00	Chicago	Arrived from St. Paul
1890	Jan	10	10:00	Chicago	Left for New York
1890	Jan	11	10:00	New York	Arrived from Chicago
1890	Jan	12	10:00	New York	Left for St. Paul
1890	Jan	13	10:00	St. Paul	Arrived from New York
1890	Jan	14	10:00	St. Paul	Left for Chicago
1890	Jan	15	10:00	Chicago	Arrived from St. Paul
1890	Jan	16	10:00	Chicago	Left for New York
1890	Jan	17	10:00	New York	Arrived from Chicago
1890	Jan	18	10:00	New York	Left for St. Paul
1890	Jan	19	10:00	St. Paul	Arrived from New York
1890	Jan	20	10:00	St. Paul	Left for Chicago
1890	Jan	21	10:00	Chicago	Arrived from St. Paul
1890	Jan	22	10:00	Chicago	Left for New York
1890	Jan	23	10:00	New York	Arrived from Chicago
1890	Jan	24	10:00	New York	Left for St. Paul
1890	Jan	25	10:00	St. Paul	Arrived from New York
1890	Jan	26	10:00	St. Paul	Left for Chicago
1890	Jan	27	10:00	Chicago	Arrived from St. Paul
1890	Jan	28	10:00	Chicago	Left for New York
1890	Jan	29	10:00	New York	Arrived from Chicago
1890	Jan	30	10:00	New York	Left for St. Paul
1890	Jan	31	10:00	St. Paul	Arrived from New York

		Trivial Name	Locality	Sp-gr.	Analyst	Silic
LI.	34. Sp. JENITE.	Yénite	Elba	4.06	Vauquelin	30.
		.	Ditto	.	Descostils	28.
LII.	35. Sp. GADOLINITE.	Ytterbite	Ytterby	.	Ekeberg	23.
		.	.	.	Ditto	25.
		.	.	4.04	Vauquelin	23.5
		.	.	4.23	Klaproth	21.25
		Kohlenblende	Bornholm	.	Ditto	22.
LIII.	36. Sp. SAHLITE.	Malakolith	Sweden	3.23	Vauquelin	53.
		.	Langbanshytt.	2.29	Hisinger	54.18
LIV.	37. Sp. STAUROTIDE.	Grenatite	Morbihan	3.28	Vauquelin	33.
		Ditto	St. Gothard	.	Ditto	30.59
		Ditto <i>brown</i>	Ditto	3.76	Klaproth	27.
		Ditto <i>black</i>	Ditto	3.51	Ditto	37.5
I.V.	38. Sp. EPIDOTE.					
	Cristallised	Arendalit	Norway	3.54	Vauquelin	37.
		Pistazit	Oisans	3.46	Descostils	37.
		Thallit	Siberia	.	John	39.
		Ditto	Carnatic	.	Chenevix	45.
	<i>Prismatic</i>	Ditto	Ditto	.	Ditto	40.
	<i>Yellow</i>	Ditto	Ditto	.	Ditto	42.
	<i>Violet</i>	Ditto	Piémont	.	Cordier	33.5
		Zoisit	Carinthia	3.31	Klaproth	49.
		.	Ditto	3.26	Ditto	37.5
	Granular	Friable	Ditto	3.3	Ditto	44.
		Skorza	Transylvania	3.13	Ditto	43.
		.	Spessart	2.5	Ditto	88.25
		Foliated	Bareuth	3.31	Bucholz	40.25
		.	Valais	.	Laugier	37.
LVI.	39. Sp. DIALLAGE.	Smaragdite	Corsica	3.	Vauquelin	50.
		Körn. strahlite	Teinach	3.25	Klaproth	56.
		Bronzit	Kraubatz	3.2	Ditto	60.
		Ditto	Hartz	.	Drapier	41.
		Ditto	Basta	.	Gmelin	43.7
		Ditto	Ditto	.	Heyer	52.
		†	Lacelle	2.71	Vauquelin	41.66
LVII.	40. Sp. WERNERITE.					
	Cristallised	Green	Arandahl	3.60	John	40.
		White	.	.	Ditto	51.5
		Greenish grey	.	.	Ditto	60.25
	Prismatic	Scapolite	.	3.71	Abildgaard	48.
		Vitreous	.	.	Laugier	45.
		.	.	.	Simon	53.
		Redish brown	Sweden	.	Berzelius	61.
		Sodaït	Nerike	.	Ekeberg	46.
	Compact	Fettstein	Norway	2.61	Vauquelin	44.
		Elacolith	Fk. Schwerin	2.61	Klaproth	46.5
		Lythrodos	.	.	John	44.62

† Vauquelin does not name this stone, but thinks it may belong to talc, because it was
tion analogous, it is more probably a variety of bronzite.

‡ With

THY COMPOUNDS.

Alum.	Lime	Mag.	Iron	Mang.	Alkali	Water	Loss	Other ingred.	Authority
.6	12.5 12.	.	57.5 55.	.	.	.	.	.	Tab. com. Ditto
*	.	.	16.5	.	.	.	.5	55.5 yttria ⁺	Letter
4.5	.	.	18.	.	.	.	.	47.5 ditto	Tab. com.
.	2.	.	25.	2.	.	.	10.5+	35. ditto	An. ch. 36
.5	.	.	17.5	.	.	.5	.	59.75 ditto	No. 76
.	.	.	16.5	*	.	.5	.	60. ditto	No. 200
3.	20.	19.	.	4.	.	.	1.	.	Tab. com
.	22.72	17.81	2.18	1.45	.	.	1.2	.	Leon. 12
44.	3.84	.	13.	1.	.	.	5.16	.	Journal
47.06	3.	.	15.3	.	.	.	4.05	.	An. ch. 30
52.25	.	.	18.3	.25	.	.	.	.	No. 182
41.	.	.5	18.25	.5	.	.	.	.	Ditto
21.	15.	.	24.	1.5	.	.	1.5	.	Tab. com.
27.	14.	.	17.	1.5	.	.	3.5	.	Ditto
20.	15.	.	19.5	1.5	*	.	.	* chrome	Leon. 12
28.	15.	.	11.	.	.	.	1.	.	P. Trans.
25.	21.5	.	11.5	.	.	.	2.	.	Ditto
25.5	16.	.	14.	.	.	.	2.5	.	Ditto
15.	14.5	.	19.5	12.	.	.	5.5	.	Journal
29.	21.	i	3	.	.	.	.	.	No. 141
29.5	17.5	.	4.5	.	.	.	.	.	Ditto
32.	20.	.	2.5	*	.	.	.	.	No. 178
21.	14.	.	16.5	.25	.	.	2.5	.	No. 107
1.	.	.	7.	.	.	.	5.	.	No. 189
30.25	22.5	.	4.5	*	.	.	2.	.	Leon. 10
26.6	20.	.	13.	.6	.	1.8	1.	.	Ditto
11.	13.	6.	55.	.	.	4.5	.	7.5 chrom. §	Thury 58
3.25	15.5	18.5	4.25	*	.	.	.	1. ditto	Leon 13
.	.	27.5	10.5	.	.	.5	1.5	.	No. 176
3.	1.	29.	14.	.	.	10.	2.	.	Jour. 16
17.9	.	11.3	23.7	.	.	.	.	.	Thury
23.33	7.	6.	27.5	.	.	.	.	.	Broch.
1.33	1.64	36.34	10.	.	.	.	4.5	4.5 charcoal	An. ch. 49
34.	16.5	.	8.	1.5	.	.	.	.	Jour. 22
33.	10.45	.	3.5	1.45	.	.	.	.	Ditto
30.	10.5	.	3.	2.45	2.	2.85	.	.	Leon. 12
30.	14.	.	1.	.	.	2.	5.	.	Thomson
33.	17.6	.	.5	.5	1.5 s	.	1.4	.5 potash	Tab. com.
15.	13.25	7.	2.	4.5	3.5 s	.	1.75	.	Ditto
25.75	3.	.75	1.5	.	. s	5.	1.	.	Leon 11
28.25	13.5	.	.75	.	5.25 s	3.25	3.5	.	Ditto
34.	.12	.	4.	.	16.5 s	.	.	.	Aikin
30.25	.75	.	1.	.	18.	2.	1.5	.	No. 201
37.36	2.75	*	1.	*	8.	6.	.	.	Annals

as accompanied with serpentine; being spathose and lamellated, and the composi-
4.5 glucine.
§ With 1.5 copper.

		Trivial Name	Locality	Sp.gr.	Analyst	Silic
LVIII.	41. Sp. LAZULITE.	Lapis Lazuli	Oriental	.	Klaproth	46
		Ultra marine	Prepared	3.36	Désormes	35.8
		Lasulit de Wer.	.	.	.	.
LIX.	42. Sp. MESOTYPE.	Cristallised	Auvergne	.	Smithson	49.
		Radiated	Faroe	2.08	Pelletier	50.
		Acicular	Ditto	.	Meyer	41.
		.	.	.	Bergman	60.
		.	.	.	Klaproth	14.
	<i>Farinaceous</i>	Mealy	Ditto	.	Vauquelin	50-24
		Ditto	Fahlun	.	Hisinger	60.
	<i>Brick coloured</i>	Edelite	Edelfors	2.51	Bergman	60.
LX.	43. Sp. LAUMONITE.	Efflorescent z.	Huelgoet	2.23	Vogel	49.
LXI.	44. Sp. APOPHYLLITE	Fish eye stone	.	2.46	Vauquelin	51.
		.	.	.	Rose	55.
		.	.	.	Ditto	52.
LXII.	45. Sp. STILBITE.	Foliated zeol.	Faroe	2.50	Vauquelin	52.
	<i>Orange coloured</i>	Fassaït	.	.	.	.
LXIII.	46. Sp. CHABASIE.	Cubic zeolite	Faroe	2.71	Ditto	43-33
LXIV.	47. Sp. ANALCIME.	.	.	2.	Häuy	.
		Cubezit	Viscentin	.	Ditto	58.
		Sarcolite	Ditto	.	Ditto	50.
		Ditto	Castel	.	Ditto	50.
LXV.	48. Sp. PREHNITE.	Cristallised	Dauphiné	2.60	Hassenfr.	50.
		.	Cape	.	Klaproth	43.8
		.	Fassa	2.91	Ditto	42.87
		.	Ratschinkes	2.92	Ditto	43.
		Radiated	Reichenbach	.	Laugier	42.5
		Koupholite	Barège	2.69	Vauquelin	48.
LXVI.	49. Sp. WAVELLITE.	.	Barnstaple	.	Klaproth	.
		.	South America	.	Ditto	4.5
		.	St. Austle	2.22	Davy	.
		.	Ditto	.	Gregor	6.12
		Diaspore	.	3.4	Vauquelin	.
		Earthy †	Freyberg	.	John	.
LXVII.	50. Sp. SOMMITE.	Nepheline	Monte Somma	3.27	Vauquelin	46.
LXVIII.	51. Sp. HARMOTOME.	Cross stone	Andreasberg	2.35	Heyer	44.
		.	Ditto	2.30	Klaproth	49.
		.	Oberstein	2.33	Tassaert	47.5

† With 10. c. acid.

‡ This substance is descr

POUNDS.

Alum	Lime	Mag.	Iron	Mang	Alkali	Water	Loss	Other ingred.	Authority
14.5	17.5	.	3.	.	.	2.	3.	4. s. acid +	No. 10
34.8	3.1 c	.	.	.	23.2 s	.	.	3.1 sulph.	Tab. com.
.
27.	.	.	.	.	17. s	9.5	.	.	Nicholson
20.	8.	.	.	.	.	22.	.	.	Tab. com.
31.	11.	.	.	.	.	16.	1.	.	.
18.	16.	.	.	.	.	4.	.	.	Thury 37
30.	8.	.	5.	.	.	2.	.	.	Ditto
29.3	9.46	.	.	.	.	10.	1.	.	Tab. com.
15.6	8.	.	1.8	.	.	11.6	.	.	Leon. 12
20.	16.	.	.	.	.	4.	.	.	.
22.	9.	.	.	.	.	17.5	.	2.5 c. acid	Leon. 11
.	28.	.	.	.	4. P	17.	.	.	Tab. com.
.	25.	.	.	.	2.25 P	15.	2.75	.	Ditto
.	24.5	.	.	.	8.1 P	15.	4.	.	Thomson
17.5	9.	.	.	.	.	18.5	3.	.	Tab. com.
.
22.66	2.24	.	.	.	9.34 s	21.	.33	* potash	Tab. com.
.
18.	2.	.	.	.	10. s	8.5	3.5	.	Tab. com.
20.	4.5	.	.	.	4.5 s	21.	.	.	Ditto
20.	4.25	.	.	.	4.25 s	20.	1.5	.	Ditto
20.4	23.3	.5	4.9	.	.	.9	.	.	Ditto
30.88	18.33	.	5.66	.	.	1.83	.	.	Ditto
21.5	26.5	*	3.	.25	.	.	4.63	.	Leon. 13
23.25	26.	*	2.	.25	.	.	4.	.	Ditto
28.5	20.4	.	3.	.	.75 s	2.	.	.	An. Ch. 75
24.	23.	.	4.	.	.	1.	.	.	Journal
71.5	.	.	.5	.	.	28.	.	.	No. 187
68.	.	.	1.	.	.	26.5	.	.	Ditto
70.	1.4	.	.	.	.	26.5	2.4	* r. acid	.
50.7	.37	.	.19	.	.	.0.75	3.87	.	Thomson
80.	.	.	3.	.	.	17.	.	.	An. Ch. 42
81.75	4.	.83	.	.	.5 P	13.5	.	.	Annals 21
49.	2.	.	1.	.	.	.	2.	.	Tab. com.
20.	.	.	.	.	.	.	12.	24. baryte	An. Ch. 6
16.	.	.	.	.	.	15.	.	18. ditto	No. 37
19.5	.	.	.	.	.	13.5	3.5	16. ditto	Tab. com.

bed by John as the white earthy talc of Freyberg.

		Trivial Name	Locality	Sp.gr.	Analyst	Site
LXIX.	52. SP. PERIDOT.	Chrysolite	Levant	3.34	Klaproth	39.
		Cristallised	Of commerce	3.28	Vauquelin	38.
					Chenevix	39.
		Granular	Olivin	3.26	Klaproth	50.
			Ditto decomp.		Ditto	52.
			Siberian iron	3.26	Howard	54.
LXX.	53. SP. LEPIDOLITE.	Lilalite	Rosena	2.81	Klaproth	54.5
					Ditto	54.5
					Vauquelin	54.
		White			Fronsdorf	52.
			Utön		John	61.6
LXXI.	54. SP. MICA.	Glimmer	Muscovy		Bergman	40.
				2.93	Vauquelin	50.
			Zinwald		Klaproth	47.
			Muscovy	2.79	Ditto	48.
		Black	Siberia	2.53	Ditto	42.5
LXXII.	55. SP. PINITE.	Micarelle	Saxony	2.98	Klaproth	29.5
			France		Drapier	46.
LXXIII.	56. SP. DIPYRE.		Pyranees	2.63	Vauquelin	60.
LXXIV.	57. SP. CHIASTOLITE.	Macle				
LXXV.	58. SP. SAPPARE.	Cyanite	St. Gothard	3.51	Saussure	29.2
			Ditto		Struve	51.
			Ditto		Laugier	38.5
			Ditto	3.68	Klaproth	43.
			Aschafenburg		Ditto	39.
LXXVI.	59. SP. TREMOLITE.	Fibrous	Edinb. castle	2.92	Kennedy	51.5
		Grammatite	St. Gothard		Chenevix	27.
		Ditto	Ditto		Klaproth	65.
		Ditto <i>grey</i>	Ditto		Laugier	50.
		Ditto <i>white</i>	Ditto		Ditto	35.5
		Ditto	Ditto		Ditto	28.4
		Ditto	Ditto		Ditto	41.
		Common			Lowitz	52.
		Baikalite	Siberia	3.20	Ditto	44.
LXXVII.	60. SP. ASBEST.				Bergman	64.
	a. Flexible	Amianth	Dalecarlia		Chenevix	59.
		Ditto		.90	Bergman	64.
	b. Hard	Asbestus	Tarantais		Ditto	63.5
		Ditto	Dalecarlia	2.99	Ditto	62.
	c. Suberiforme	Rockcork			Ditto	56.2
		Ditto			Ditto	72.
	d. Ligniforme	Rockwood	Corias			

Y COMPOUNDS.

Alum	Lime	Mag.	Iron	Mang	Alkali	Water	Loss	Other ingred.	Authority
.	.	44.5	19.	.	.	.	.	.	No. 7
.	.	51.5	9.5	.	.	.	2.	.	An. ch. 21
.	.	53.	7.5	.	.	.	.	.	An. ch. 28
.	.25	38.5	12.	.	.	.	.	.	No. 8
.	.12	37.75	10.75	.	.	.	.	.	Ditto
.	.	27.	17.	.	.	.	1.	1. nickel	P. Trans.
38.25	.	.	*	*	.	.	6.5	.	No. 19
38.25	.	.	.75	*	4. P	.	.	.	No. 56
20.	4. F	.	1.	3.	18. P	.	.	.	Tab. com.
31.	8.5	.	.25	.	7. P	.	1.25	.	Thomson
20.61	1.6	.	*	.5	9.16 P	.	1.86	.	Leon. 12
46.	.	5.	9.	.	.	.	.	.	Aikin
35.	1.33	1.35	7.	.	.	.	5.33	.	Lucas
20.	.	.	15.5	1.75	14.5 P	.	.	.	No. 181
34.25	.	.5	4.5	.	8.75 P	1.25	.	.	Ditto
11.5	.	9.	22.	2.	10. F	1.	.	.	Ditto
63.75	.	.	6.25	.	.	.	.	.	Jour. 16
42.	.	.	2.5	.	.	.	9.5	.	Ditto
24.	10.	.	.	.	.	2.	4.	.	Tab. com.
.
55.2	2.05	2.	6.65	.	.	.	4.9	.	Lucas
30.	4.	5.	5.	.	.	.	.	.	Thury 77
55.5	.5	.	2.75	.	.	.75	2.	.	Tab. com.
55.5	.	.	.5	.	* P	.	.	.	No. 170
53.	*	3.5	.	.	.	.	2.	.	Leon. 10
.5	32.	.	.5	.	8.3 S	.	.	5. c. acid	Ed. Trans.
6.	21.	18.5	.	.	.	.	1.5	26. ditto	An. ch. 28
.	18.	10.33	.16	.	.	.	.	6.5 ditto	Tab. com.
.	18.	25.	.	.	.	.	.	5. ditto	Ditto
.	26.5	16.5	.	.	.	.	.	23. ditto	Ditto
.	30.6	18.	.	.	.	.	.	25. ditto	Ditto
.	15.	15.25	.	.	.	.	5.75	23. ditto	Ditto
.	20.	12.	.	.	.	.	4.	12. c. lime	Ditto
.	20.	30.	6.	.	.	.	.	.	Ditto
2.7	13.5 c	17.2 c	2.2	.	.	.	.	.	Thomson
3.	9.5	25.	2.25	.	.	.	1.25	.	Ditto
3.3	6.9 c	13.6 c	1.2	.	.	.	.	6. baryte	Ditto
1.1	12.8	16.	6.	.	.	.	.	.	Ditto
2.8	10. c	22. c	3.2	.	.	.	.	.	Ditto
2.	12.7 c	26.1 c	3.	.	.	.	.	.	Ditto
3.3	10.5 c	12.19 c	1.3	.	.	.	.	.	Ditto

Year	Month	Day	Time	Place	Event	Remarks
1880	Jan	1	10:00	St. Paul	Arrived	From St. Louis
1880	Jan	2	10:00	St. Paul	Departed	For St. Louis
1880	Jan	3	10:00	St. Paul	Arrived	From St. Louis
1880	Jan	4	10:00	St. Paul	Departed	For St. Louis
1880	Jan	5	10:00	St. Paul	Arrived	From St. Louis
1880	Jan	6	10:00	St. Paul	Departed	For St. Louis
1880	Jan	7	10:00	St. Paul	Arrived	From St. Louis
1880	Jan	8	10:00	St. Paul	Departed	For St. Louis
1880	Jan	9	10:00	St. Paul	Arrived	From St. Louis
1880	Jan	10	10:00	St. Paul	Departed	For St. Louis
1880	Jan	11	10:00	St. Paul	Arrived	From St. Louis
1880	Jan	12	10:00	St. Paul	Departed	For St. Louis
1880	Jan	13	10:00	St. Paul	Arrived	From St. Louis
1880	Jan	14	10:00	St. Paul	Departed	For St. Louis
1880	Jan	15	10:00	St. Paul	Arrived	From St. Louis
1880	Jan	16	10:00	St. Paul	Departed	For St. Louis
1880	Jan	17	10:00	St. Paul	Arrived	From St. Louis
1880	Jan	18	10:00	St. Paul	Departed	For St. Louis
1880	Jan	19	10:00	St. Paul	Arrived	From St. Louis
1880	Jan	20	10:00	St. Paul	Departed	For St. Louis
1880	Jan	21	10:00	St. Paul	Arrived	From St. Louis
1880	Jan	22	10:00	St. Paul	Departed	For St. Louis
1880	Jan	23	10:00	St. Paul	Arrived	From St. Louis
1880	Jan	24	10:00	St. Paul	Departed	For St. Louis
1880	Jan	25	10:00	St. Paul	Arrived	From St. Louis
1880	Jan	26	10:00	St. Paul	Departed	For St. Louis
1880	Jan	27	10:00	St. Paul	Arrived	From St. Louis
1880	Jan	28	10:00	St. Paul	Departed	For St. Louis
1880	Jan	29	10:00	St. Paul	Arrived	From St. Louis
1880	Jan	30	10:00	St. Paul	Departed	For St. Louis
1880	Jan	31	10:00	St. Paul	Arrived	From St. Louis

		Trivial Name	Locality	Sp.gr.	Analyst.	Silic
LXXVIII.	61. Sp. TALC.					
	a. Indurated	French chalk	Briançon	.	Vauquelin	61.25
	b. Laminated	Talc laminaire	.	.	Ditto	62.
	c. Massive	Potstone	Chiavenna	2.87	Weigleb	38.12
	d. Scaly	.	St. Gothard	3.66	Klaproth	62.
	e. Earthy	Talcite	Merowitz	.	John	60.2
LXXIX.	62. Sp. CH LORITE.					
	a. Cristallised	.	St. Gothard	.	Lampad.	35.
	b. Foliated	White var.	.	.	Vauquelin	56.
		Ditto	.	.	Höpfner	41.15
		Common	.	.	Vauquelin	26.
	c. Earthy	White silvery	.	.	Ditto	56.
		Ditto	.	.	.	50.
		Earthy	.	.	Höpfner	37.
		Sinopsis earth	.	.	Klaproth	32.
LXXX.	63. Sp. STEATITE.					
		Eatable	N. Caledonia	.	Vauquelin	36.
		Speckstein	Baireuth	.	Klaproth	59.5
		Soap rock	Cornwall	.	Ditto	48.
		Ditto	Ditto	.	Ditto	45.
		White steatite	.	.	Chenevix	60.
		Bildstein <i>red</i>	China	.	Vauquelin	64.
		Ditto <i>yellowish</i>	Ditto	.	Ditto	56.
		Ditto	Ditto	.	John	55.
		Do. <i>translucid</i>	Ditto	2.81	Klaproth	54.
		Ditto <i>opaque</i>	Ditto	2.78	Ditto	62.
		Agalmatholith	Nayag	.	Ditto	55.
		Ditto	China	.	Vauquelin	54.5
		Ditto <i>red</i>	Ditto	.	John	51.5
LXXXI.	64. Sp. SERPENTINE.					
		Precious	.	2.50	John	42.5
		Common	Harzburg	.	Knoch	45.
		Ditto	.	.	Chenevix	26.
		.	.	.	Ditto	28.
		.	Norberg	.	Hisinger	32.
		Redish brown	.	.	John	31.5
LXXXII.	65. Sp. GREEN EARTH					
		Terre de Ver.	Verona	.	Vauquelin	52.
		.	Ditto	.	Klaproth	53.
		.	Cyprus	.	Ditto	51.5
		.	East Prussia	.	Ditto	51.
LXXXIII.	66. Sp. BOLE.					
		Tripoli	Ronneberg	.	Bucholz	81.
		Yellow ocre	Pourrain	.	Guillot	65.
		Ditto	Bitry	.	Ditto	92.
LXXXIV.	67. Sp. FULLERS EARTH.					
		Walkererde	.	.	.	.

† Partly c. acid

COMPOUNDS.

[illegible]

4.

Year	Month	Day	Event
1880	Jan	1	...
1880	Jan	2	...
1880	Jan	3	...
1880	Jan	4	...
1880	Jan	5	...
1880	Jan	6	...
1880	Jan	7	...
1880	Jan	8	...
1880	Jan	9	...
1880	Jan	10	...
1880	Jan	11	...
1880	Jan	12	...
1880	Jan	13	...
1880	Jan	14	...
1880	Jan	15	...
1880	Jan	16	...
1880	Jan	17	...
1880	Jan	18	...
1880	Jan	19	...
1880	Jan	20	...
1880	Jan	21	...
1880	Jan	22	...
1880	Jan	23	...
1880	Jan	24	...
1880	Jan	25	...
1880	Jan	26	...
1880	Jan	27	...
1880	Jan	28	...
1880	Jan	29	...
1880	Jan	30	...
1880	Jan	31	...

APPENDIX

Year	Month	Day	Event
1880	Feb	1	...
1880	Feb	2	...
1880	Feb	3	...
1880	Feb	4	...
1880	Feb	5	...
1880	Feb	6	...
1880	Feb	7	...
1880	Feb	8	...
1880	Feb	9	...
1880	Feb	10	...
1880	Feb	11	...
1880	Feb	12	...
1880	Feb	13	...
1880	Feb	14	...
1880	Feb	15	...
1880	Feb	16	...
1880	Feb	17	...
1880	Feb	18	...
1880	Feb	19	...
1880	Feb	20	...
1880	Feb	21	...
1880	Feb	22	...
1880	Feb	23	...
1880	Feb	24	...
1880	Feb	25	...
1880	Feb	26	...
1880	Feb	27	...
1880	Feb	28	...
1880	Feb	29	...
1880	Feb	30	...
1880	Feb	31	...

		Trivial Name	Locality	Sp-gr.	Analyst
LXXXV.	68. Sp. LITHOMARGA.	Steinmark	Rochlitz	.	Klaproth
LXXXVI.	69. Sp. POTTERS CLAY.	Cristallised Töpferthon	Flachenseiffen De Dreux	2.6	Ditto Vauquelin
		.	Lemnos	.	Bergman
		.	Osmunde	.	Ditto
		.	Hampshire	.	Ditto
		.	Tournay	.	Hassenfr.
		.	Montcenis	.	Ditto
		.	Neuilly	.	Ditto
		.	Wedgwood	.	Ditto
		.	St. Yrieux	.	Ditto
LXXXVII.	70. Sp. WHET SLATE.	Berg mehl	Sta. Fiora	.	Klaproth
LXXXVIII.	71. Sp. DRAWING SLATE.	Black chalk	Baireuth	.	Weigleb
APPENDIX.					
LXXXIX.	1. ADHESIVE SLATE.	Menilite	Menil Mont.	2.08	Klaproth
		.	.	.	Ditto
		.	.	.	Lampad.
		.	.	.	Bucholz
XC.	2. ANDALOUSITE.	.	.	.	.
XCI.	3. CEREOLITE.	.	.	.	.
XCH.	4. CHUSITE.	.	Limbourg	.	.
XCHH	5. DESMINES.	.	.	.	.
XCIV.	6. FIBROLITE.	.	Carnatic	.	Chenevix
		.	China	.	Ditto
XCV.	7. FREISLEBEN.	.	.	.	.
XCVI.	8. IOLITHE.	.	C. de Gattes	2.56	.
XCVII.	9. KEFFEKILITHE.	.	.	.	.
XCVIII.	10. LATIALITE.	Häüyn	Lac Nemi	3.33	Vauquelin
		Ditto	Rome	2.83	Gmelin
XCIX.	11. LIMBELITE.	.	.	.	.
C.	12. MELILITE.	.	.	.	.
CI.	13. PICOLITHE.	.	.	.	.
CII.	14. POLISHING SLATE.	Polier Shiefer	Bellin Bohem.	.6	Bucholz
		Compact	.	2.02	.
		Friable	.	.	.
CHL.	15. SIDERO CLEPT.	.	.	.	.
CIV.	16. SPATH DE GLACE.	.	.	.	.
CV.	17. SPINELLANE.	.	.	.	.
CVI.	18. SPINTHERE.	.	.	.	.
CVII.	19. TABULAR SPAR.	Tafelspath	Dognatska	2.86	Klaproth
CVIII.	20. TRICKLASITE.
CIX.	21. TURQUOISE.	.	Persia	3.12	Lagrange
		.	.	.	John

† Terre Ferrugeneuse.

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15

THY COMPOUNDS.

Silex	Alum	Lime	Mag.	Iron	Mang.	Alkali	Water	Loss	Other ingred.	Authority
45.25	36.5	.	.	2.75	.	* P	14.	.	.	Leon. 13
58.	32.	.	.	2.	.	.	7.	1.	.	Ditto
43.5	33.2	3.5	.	1.	.	.	18.	.8	.	Thomson
7.	19.	5.4 c	6.2 c	5.4	.	.	.	17.	.	An. ch. 14
60.	11.1	5.7 c	.5 c	4.7	.	.	.	18.	.	Ditto
51.8	25.	3.3 c	.7	3.7	.	.	.	15.5	.	Ditto
43.	57.	.	.	.	.	.	.	.	.	Ditto
55.	45.	.	.	.	.	.	.	.	.	Ditto
73.	27.	.	.	.	.	.	.	.	.	Ditto
76.	24.	.	.	.	.	.	.	.	.	Ditto
70.	30.	.	.	.	.	.	.	.	.	Ditto
79.	5.	.	.	3.	.	.	12.	1.	.	Annals
.
64.	11.25	.	.	2.75†	.	.	7.5	3.	11. carbon.	An. ch. 30
66.5	7.	1.25	1.5	2.5	.	.	19.	2.25	.	No. 51 *
62.5	.5	.25	8.	4	.	.	22.	.	.75 carbon.	No. 156
30.8	.	.8	28.	11.2	.	.	.3	.	27. c. acid	Jour. 18
58.	5.	1.5 c	6.5	9.	*	.	19.	1.	.	Ditto 27
.
.
.
.
38.	52.25	.	.	.75	.	.	.	3.	.	P. Trans.
33.	46.	.	.	13.	.	.	.	8.	.	Ditto
.
.
.
30.	15.	5.	.	1.	.	11. P	.	17.5	20. s. lime	Fab. com.
35.48	18.85	2.66	.	1.16	.	15.45 P	1.2	3.45 S	21.73 ditto	Annals
.
.
.
79.	1.	1.	.	4.	.	14.	1.	1.	.	Jour. 21
83.5	4.	.5	.	1.5	.	9.	.	.	.	Ditto
87.	.5	.5	.	1.5	.	10.	.	.	.	Ditto
.
.
.
.
50.	.	45.	.	.	5.	.	.	.	.	No. 109
.
.	1.5	80. P	2. P	2. P	*	.	6.5	.	8. c. lime	An. ch. 59
.	73.	.	.	4.	.	.	18.	.	4.5 copper	Leon. 12

Partly bit. hydrogen.

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
1890	1	2	3	4	5	6	7	8	9	10	11	12	13
1891	14	15	16	17	18	19	20	21	22	23	24	25	26
1892	27	28	29	30	31	1	2	3	4	5	6	7	8
1893	9	10	11	12	13	14	15	16	17	18	19	20	21
1894	22	23	24	25	26	27	28	29	30	31	1	2	3
1895	4	5	6	7	8	9	10	11	12	13	14	15	16
1896	17	18	19	20	21	22	23	24	25	26	27	28	29
1897	30	31	1	2	3	4	5	6	7	8	9	10	11
1898	12	13	14	15	16	17	18	19	20	21	22	23	24
1899	25	26	27	28	29	30	31	1	2	3	4	5	6
1900	7	8	9	10	11	12	13	14	15	16	17	18	19
1901	20	21	22	23	24	25	26	27	28	29	30	31	1
1902	2	3	4	5	6	7	8	9	10	11	12	13	14
1903	15	16	17	18	19	20	21	22	23	24	25	26	27
1904	28	29	30	31	1	2	3	4	5	6	7	8	9
1905	10	11	12	13	14	15	16	17	18	19	20	21	22
1906	23	24	25	26	27	28	29	30	31	1	2	3	4
1907	5	6	7	8	9	10	11	12	13	14	15	16	17
1908	18	19	20	21	22	23	24	25	26	27	28	29	30
1909	31	1	2	3	4	5	6	7	8	9	10	11	12
1910	13	14	15	16	17	18	19	20	21	22	23	24	25
1911	26	27	28	29	30	31	1	2	3	4	5	6	7
1912	8	9	10	11	12	13	14	15	16	17	18	19	20
1913	21	22	23	24	25	26	27	28	29	30	31	1	2
1914	3	4	5	6	7	8	9	10	11	12	13	14	15
1915	16	17	18	19	20	21	22	23	24	25	26	27	28
1916	29	30	31	1	2	3	4	5	6	7	8	9	10
1917	11	12	13	14	15	16	17	18	19	20	21	22	23
1918	24	25	26	27	28	29	30	31	1	2	3	4	5
1919	6	7	8	9	10	11	12	13	14	15	16	17	18
1920	19	20	21	22	23	24	25	26	27	28	29	30	31
1921	1	2	3	4	5	6	7	8	9	10	11	12	13
1922	14	15	16	17	18	19	20	21	22	23	24	25	26
1923	27	28	29	30	31	1	2	3	4	5	6	7	8
1924	9	10	11	12	13	14	15	16	17	18	19	20	21
1925	22	23	24	25	26	27	28	29	30	31	1	2	3
1926	4	5	6	7	8	9	10	11	12	13	14	15	16
1927	17	18	19	20	21	22	23	24	25	26	27	28	29
1928	30	31	1	2	3	4	5	6	7	8	9	10	11
1929	12	13	14	15	16	17	18	19	20	21	22	23	24
1930	25	26	27	28	29	30	31	1	2	3	4	5	6
1931	7	8	9	10	11	12	13	14	15	16	17	18	19
1932	20	21	22	23	24	25	26	27	28	29	30	31	1
1933	2	3	4	5	6	7	8	9	10	11	12	13	14
1934	15	16	17	18	19	20	21	22	23	24	25	26	27
1935	28	29	30	31	1	2	3	4	5	6	7	8	9
1936	10	11	12	13	14	15	16	17	18	19	20	21	22
1937	23	24	25	26	27	28	29	30	31	1	2	3	4
1938	5	6	7	8	9	10	11	12	13	14	15	16	17
1939	18	19	20	21	22	23	24	25	26	27	28	29	30
1940	31	1	2	3	4	5	6	7	8	9	10	11	12
1941	13	14	15	16	17	18	19	20	21	22	23	24	25
1942	26	27	28	29	30	31	1	2	3	4	5	6	7
1943	8	9	10	11	12	13	14	15	16	17	18	19	20
1944	21	22	23	24	25	26	27	28	29	30	31	1	2
1945	3	4	5	6	7	8	9	10	11	12	13	14	15
1946	16	17	18	19	20	21	22	23	24	25	26	27	28
1947	29	30	31	1	2	3	4	5	6	7	8	9	10
1948	11	12	13	14	15	16	17	18	19	20	21	22	23
1949	24	25	26	27	28	29	30	31	1	2	3	4	5
1950	6	7	8	9	10	11	12	13	14	15	16	17	18
1951	19	20	21	22	23	24	25	26	27	28	29	30	31
1952	1	2	3	4	5	6	7	8	9	10	11	12	13
1953	14	15	16	17	18	19	20	21	22	23	24	25	26
1954	27	28	29	30	31	1	2	3	4	5	6	7	8
1955	9	10	11	12	13	14	15	16	17	18	19	20	21
1956	22	23	24	25	26	27	28	29	30	31	1	2	3
1957	4	5	6	7	8	9	10	11	12	13	14	15	16
1958	17	18	19	20	21	22	23	24	25	26	27	28	29
1959	30	31	1	2	3	4	5	6	7	8	9	10	11
1960	12	13	14	15	16	17	18	19	20	21	22	23	24
1961	25	26	27	28	29	30	31	1	2	3	4	5	6
1962	7	8	9	10	11	12	13	14	15	16	17	18	19
1963	20	21	22	23	24	25	26	27	28	29	30	31	1
1964	2	3	4	5	6	7	8	9	10	11	12	13	14
1965	15	16	17	18	19	20	21	22	23	24	25	26	27
1966	28	29	30	31	1	2	3	4	5	6	7	8	9
1967	10	11	12	13	14	15	16	17	18	19	20	21	22
1968	23	24	25	26	27	28	29	30	31	1	2	3	4
1969	5	6	7	8	9	10	11	12	13	14	15	16	17
1970	18	19	20	21	22	23	24	25	26	27	28	29	30
1971	31	1	2	3	4	5	6	7	8	9	10	11	12
1972	13	14	15	16	17	18	19	20	21	22	23	24	25
1973	26	27	28	29	30	31	1	2	3	4	5	6	7
1974	8	9	10	11	12	13	14	15	16	17	18	19	20
1975	21	22	23	24	25	26	27	28	29	30	31	1	2
1976	3	4	5	6	7	8	9	10	11	12	13	14	15
1977	16	17	18	19	20	21	22	23	24	25	26	27	28
1978	29	30	31	1	2	3	4	5	6	7	8	9	10
1979	11	12	13	14	15	16	17	18	19	20	21	22	23
1980	24	25	26	27	28	29	30	31	1	2	3	4	5
1981	6	7	8	9	10	11	12	13	14	15	16	17	18
1982	19	20	21	22	23	24	25	26	27	28	29	30	31
1983	1	2	3	4	5	6	7	8	9	10	11	12	13
1984	14	15	16	17	18	19	20	21	22	23	24	25	26
1985	27	28	29	30	31	1	2	3	4	5	6	7	8
1986	9	10	11	12	13	14	15	16	17	18	19	20	21
1987	22	23	24	25	26	27	28	29	30	31	1	2	3
1988	4	5	6	7	8	9	10	11	12	13	14	15	16
1989	17	18	19	20	21	22	23	24	25	26	27	28	29
1990	30	31	1	2	3	4	5	6	7	8	9	10	11
1991	12	13	14	15	16	17	18	19	20	21	22	23	24
1992	25	26	27	28	29	30	31	1	2	3	4	5	6
1993	7	8	9	10	11	12	13	14	15	16	17	18	19
1994	20	21	22	23	24	25	26	27	28	29	30	31	1
1995	2	3	4	5	6	7	8	9	10	11	12	13	14
1996	15	16	17	18	19	20	21	22	23	24	25	26	27
1997	28	29	30	31	1	2	3	4	5	6	7	8	9
1998	10	11	12	13	14	15	16	17	18	19	20	21	22
1999	23	24	25	26	27	28	29	30	31	1	2	3	4
2000	5	6	7	8	9	10	11	12	13	14	15	16	17
2001	18	19	20	21	22	23	24	25	26	27	28	29	30
2002	31	1	2	3	4	5	6	7	8	9	10	11	12
2003	13	14	15	16	17	18	19	20	21	22	23	24	25
2004	26	27	28	29	30	31	1	2	3	4	5	6	7
2005	8	9	10	11	12	13	14	15	16	17	18	19	20
2006	21	22	23	24	25	26	27	28	29	30	31	1	2
2007	3	4	5	6	7	8	9	10	11	12	13	14	15
2008	16	17	18	19	20	21	22	23	24	25	26	27	28
2009	29	30	31	1	2	3	4	5	6	7	8	9	10

Name		Address		Occupation		Religion		Political Party		Social Status	
John	Smith	123 Main St	New York	Merchant	Presbyterian	Republican	Upper				
James	Johnson	456 Elm St	Chicago	Engineer	Catholic	Democrat	Lower				
William	Williams	789 Oak St	Boston	Lawyer	Unitarian	Republican	Upper				
Charles	Clark	101 Pine St	Philadelphia	Banker	Quaker	Republican	Upper				
Thomas	Thomas	234 Cedar St	San Francisco	Gold Miner	Methodist	Republican	Lower				
Robert	Robertson	567 Birch St	London	Doctor	Anglican	Conservative	Upper				
Henry	Henry	890 Spruce St	Paris	Artist	Catholic	Republican	Upper				
George	George	1122 Maple St	St. Louis	Teacher	Methodist	Republican	Lower				
Edward	Edward	1345 Walnut St	San Diego	Farmer	Presbyterian	Republican	Lower				
Frank	Frank	1678 Hickory St	Portland	Shipyard Worker	Methodist	Democrat	Lower				
Charles	Charles	1901 Ash St	San Jose	Wine Merchant	Catholic	Republican	Upper				
John	John	2234 Sycamore St	San Antonio	Blacksmith	Methodist	Democrat	Lower				
William	William	2567 Poplar St	San Jose	Gold Miner	Methodist	Republican	Lower				
James	James	2890 Chestnut St	San Jose	Gold Miner	Methodist	Republican	Lower				
Robert	Robert	3123 Elm St	San Jose	Gold Miner	Methodist	Republican	Lower				
Thomas	Thomas	3456 Oak St	San Jose	Gold Miner	Methodist	Republican	Lower				
Charles	Charles	3789 Pine St	San Jose	Gold Miner	Methodist	Republican	Lower				
Edward	Edward	4012 Cedar St	San Jose	Gold Miner	Methodist	Republican	Lower				
Frank	Frank	4345 Birch St	San Jose	Gold Miner	Methodist	Republican	Lower				
George	George	4678 Spruce St	San Jose	Gold Miner	Methodist	Republican	Lower				
John	John	5001 Maple St	San Jose	Gold Miner	Methodist	Republican	Lower				
William	William	5334 Walnut St	San Jose	Gold Miner	Methodist	Republican	Lower				
James	James	5667 Hickory St	San Jose	Gold Miner	Methodist	Republican	Lower				
Robert	Robert	5990 Ash St	San Jose	Gold Miner	Methodist	Republican	Lower				
Thomas	Thomas	6323 Sycamore St	San Jose	Gold Miner	Methodist	Republican	Lower				
Charles	Charles	6656 Poplar St	San Jose	Gold Miner	Methodist	Republican	Lower				
Edward	Edward	6989 Chestnut St	San Jose	Gold Miner	Methodist	Republican	Lower				
Frank	Frank	7322 Elm St	San Jose	Gold Miner	Methodist	Republican	Lower				
George	George	7655 Oak St	San Jose	Gold Miner	Methodist	Republican	Lower				
John	John	7988 Pine St	San Jose	Gold Miner	Methodist	Republican	Lower				
William	William	8321 Cedar St	San Jose	Gold Miner	Methodist	Republican	Lower				
James	James	8654 Birch St	San Jose	Gold Miner	Methodist	Republican	Lower				
Robert	Robert	8987 Spruce St	San Jose	Gold Miner	Methodist	Republican	Lower				
Thomas	Thomas	9320 Maple St	San Jose	Gold Miner	Methodist	Republican	Lower				
Charles	Charles	9653 Walnut St	San Jose	Gold Miner	Methodist	Republican	Lower				
Edward	Edward	9986 Hickory St	San Jose	Gold Miner	Methodist	Republican	Lower				
Frank	Frank	10319 Ash St	San Jose	Gold Miner	Methodist	Republican	Lower				
George	George	10652 Sycamore St	San Jose	Gold Miner	Methodist	Republican	Lower				
John	John	10985 Poplar St	San Jose	Gold Miner	Methodist	Republican	Lower				
William	William	11318 Chestnut St	San Jose	Gold Miner	Methodist	Republican	Lower				
James	James	11651 Elm St	San Jose	Gold Miner	Methodist	Republican	Lower				
Robert	Robert	11984 Oak St	San Jose	Gold Miner	Methodist	Republican	Lower				
Thomas	Thomas	12317 Pine St	San Jose	Gold Miner	Methodist	Republican	Lower				
Charles	Charles	12650 Cedar St	San Jose	Gold Miner	Methodist	Republican	Lower				
Edward	Edward	12983 Birch St	San Jose	Gold Miner	Methodist	Republican	Lower				
Frank	Frank	13316 Spruce St	San Jose	Gold Miner	Methodist	Republican	Lower				
George	George	13649 Maple St	San Jose	Gold Miner	Methodist	Republican	Lower				
John	John	13982 Walnut St	San Jose	Gold Miner	Methodist	Republican	Lower				
William	William	14315 Hickory St	San Jose	Gold Miner	Methodist	Republican	Lower				
James	James	14648 Ash St	San Jose	Gold Miner	Methodist	Republican	Lower				
Robert	Robert	14981 Sycamore St	San Jose	Gold Miner	Methodist	Republican	Lower				
Thomas	Thomas	15314 Poplar St	San Jose	Gold Miner	Methodist	Republican	Lower				
Charles	Charles	15647 Chestnut St	San Jose	Gold Miner	Methodist	Republican	Lower				
Edward	Edward	15980 Elm St	San Jose	Gold Miner	Methodist	Republican	Lower				
Frank	Frank	16313 Oak St	San Jose	Gold Miner	Methodist	Republican	Lower				
George	George	16646 Pine St	San Jose	Gold Miner	Methodist	Republican	Lower				
John	John	16979 Cedar St	San Jose	Gold Miner	Methodist	Republican	Lower				
William	William	17312 Birch St	San Jose	Gold Miner	Methodist	Republican	Lower				
James	James	17645 Spruce St	San Jose	Gold Miner	Methodist	Republican	Lower				
Robert	Robert	17978 Maple St	San Jose	Gold Miner	Methodist	Republican	Lower				
Thomas	Thomas	18311 Walnut St	San Jose	Gold Miner	Methodist	Republican	Lower				
Charles	Charles	18644 Hickory St	San Jose	Gold Miner	Methodist	Republican	Lower				
Edward	Edward	18977 Ash St	San Jose	Gold Miner	Methodist	Republican	Lower				
Frank	Frank	19310 Sycamore St	San Jose	Gold Miner	Methodist	Republican	Lower				
George	George	19643 Poplar St	San Jose	Gold Miner	Methodist	Republican	Lower				
John	John	19976 Chestnut St	San Jose	Gold Miner	Methodist	Republican	Lower				
William	William	20309 Elm St	San Jose	Gold Miner	Methodist	Republican	Lower				
James	James	20642 Oak St	San Jose	Gold Miner	Methodist	Republican	Lower				
Robert	Robert	20975 Pine St	San Jose	Gold Miner	Methodist	Republican	Lower				
Thomas	Thomas	21308 Cedar St	San Jose	Gold Miner	Methodist	Republican	Lower				
Charles	Charles	21641 Birch St	San Jose	Gold Miner	Methodist	Republican	Lower				
Edward	Edward	21974 Spruce St	San Jose	Gold Miner	Methodist	Republican	Lower				
Frank	Frank	22307 Maple St	San Jose	Gold Miner	Methodist	Republican	Lower				
George	George	22640 Walnut St	San Jose	Gold Miner	Methodist	Republican	Lower				
John	John	22973 Hickory St	San Jose	Gold Miner	Methodist	Republican	Lower				
William	William	23306 Ash St	San Jose	Gold Miner	Methodist	Republican	Lower				
James	James	23639 Sycamore St	San Jose	Gold Miner	Methodist	Republican	Lower				
Robert	Robert	23972 Poplar St	San Jose	Gold Miner	Methodist	Republican	Lower				
Thomas	Thomas	24305 Chestnut St	San Jose	Gold Miner	Methodist	Republican	Lower				
Charles	Charles	24638 Elm St	San Jose	Gold Miner	Methodist	Republican	Lower				
Edward	Edward	24971 Oak St	San Jose	Gold Miner	Methodist	Republican	Lower				
Frank	Frank	25304 Pine St	San Jose	Gold Miner	Methodist	Republican	Lower				
George	George	25637 Cedar St	San Jose	Gold Miner	Methodist	Republican	Lower				
John	John	25970 Birch St	San Jose	Gold Miner	Methodist	Republican	Lower				
William	William	26303 Spruce St	San Jose	Gold Miner	Methodist	Republican	Lower				
James	James	26636 Maple St	San Jose	Gold Miner	Methodist	Republican	Lower				
Robert	Robert	26969 Walnut St	San Jose	Gold Miner	Methodist	Republican	Lower				
Thomas	Thomas	27302 Hickory St	San Jose	Gold Miner	Methodist	Republican	Lower				
Charles	Charles	27635 Ash St	San Jose	Gold Miner	Methodist	Republican	Lower				
Edward	Edward	27968 Sycamore St	San Jose	Gold Miner	Methodist	Republican	Lower				
Frank	Frank	28301 Poplar St	San Jose	Gold Miner	Methodist	Republican	Lower				
George	George	28634 Chestnut St	San Jose	Gold Miner	Methodist	Republican	Lower				
John	John	28967 Elm St	San Jose	Gold Miner	Methodist	Republican	Lower				
William	William	29300 Oak St	San Jose	Gold Miner	Methodist	Republican	Lower				
James	James	29633 Pine St	San Jose	Gold Miner	Methodist	Republican	Lower				
Robert	Robert	29966 Cedar St	San Jose	Gold Miner	Methodist	Republican	Lower				
Thomas	Thomas	30299 Birch St	San Jose	Gold Miner	Methodist	Republican	Lower				
Charles	Charles	30632 Spruce St	San Jose	Gold Miner	Methodist	Republican	Lower				
Edward	Edward	30965 Maple St	San Jose	Gold Miner	Methodist	Republican	Lower				
Frank	Frank	31298 Walnut St	San Jose	Gold Miner	Methodist	Republican	Lower				
George	George	31631 Hickory St	San Jose	Gold Miner	Methodist	Republican	Lower				
John	John	31964 Ash St	San Jose	Gold Miner	Methodist	Republican	Lower				
William	William	32297 Sycamore St	San Jose	Gold Miner	Methodist	Republican	Lower				
James	James	32630 Poplar St	San Jose	Gold Miner	Methodist	Republican	Lower				
Robert	Robert	32963 Chestnut St	San Jose	Gold Miner	Methodist	Republican	Lower				
Thomas	Thomas	33296 Elm St	San Jose	Gold Miner	Methodist	Republican	Lower				
Charles	Charles	33629 Oak St	San Jose	Gold Miner	Methodist	Republican	Lower				
Edward	Edward	33962 Pine St	San Jose	Gold Miner	Methodist	Republican	Lower				
Frank	Frank	34295 Cedar St	San Jose	Gold Miner	Methodist	Republican	Lower				
George	George	34628 Birch St	San Jose	Gold Miner	Methodist	Republican	Lower				
John	John	34961 Spruce St	San Jose	Gold Miner	Methodist	Republican	Lower				
William	William	35294 Maple St	San Jose	Gold Miner	Methodist	Republican	Lower				
James	James	35627 Walnut St	San Jose	Gold Miner	Methodist	Republican	Lower				
Robert	Robert	35960 Hickory St	San Jose	Gold Miner	Methodist	Republican	Lower				
Thomas	Thomas	36293 Ash St	San Jose	Gold Miner	Methodist	Republican	Lower				
Charles	Charles	36626 Sycamore St	San Jose	Gold Miner	Methodist	Republican	Lower				
Edward	Edward	36959 Poplar St	San Jose	Gold Miner	Methodist	Republican	Lower				
Frank	Frank	37292 Chestnut St	San Jose	Gold Miner	Methodist	Republican	Lower				
George	George	37625 Elm St	San Jose	Gold Miner	Methodist	Republican	Lower				
John	John	37958 Oak St	San Jose	Gold Miner	Methodist	Republican	Lower				
William	William	38291 Pine St	San Jose	Gold Miner	Methodist	Republican	Lower				
James	James	38624 Cedar St	San Jose	Gold Miner	Methodist	Republican	Lower				
Robert	Robert	38957 Birch St	San Jose	Gold Miner	Methodist	Republican	Lower				
Thomas	Thomas	39290 Spruce St	San Jose	Gold Miner	Methodist	Republican	Lower				
Charles	Charles	39623 Maple St	San Jose	Gold Miner	Methodist	Republican	Lower				
Edward	Edward	39956 Walnut St	San Jose	Gold Miner	Methodist	Republican	Lower				
Frank	Frank	40289 Hickory St	San Jose	Gold Miner	Methodist	Republican	Lower				
George	George	40622 Ash St	San Jose	Gold Miner	Methodist	Republican	Lower				
John	John	40955 Sycamore St	San Jose	Gold Miner	Methodist	Republican	Lower				
William	William	41288 Poplar St	San Jose	Gold Miner	Methodist	Republican	Lower				
James	James	41621 Chestnut St	San Jose	Gold Miner	Methodist	Republican	Lower				
Robert	Robert	41954 Elm St	San Jose	Gold Miner	Methodist	Republican	Lower				
Thomas	Thomas	42287 Oak St	San Jose	Gold Miner	Methodist	Republican	Lower				
Charles	Charles	42620 Pine St	San Jose	Gold Miner	Methodist	Republican	Lower				
Edward	Edward	42953 Cedar St	San Jose	Gold Miner	Methodist	Republican	Lower				
Frank	Frank	43286 Birch St	San Jose	Gold Miner	Methodist	Republican	Lower				
George	George	43619 Spruce St	San Jose	Gold Miner	Methodist	Republican	Lower				
John	John	43952 Maple St	San Jose	Gold Miner	Methodist	Republican	Lower				
William	William	44285 Walnut St	San Jose	Gold Miner	Methodist	Republican	Lower				
James	James	44618 Hickory St	San Jose	Gold Miner	Methodist	Republican	Lower				
Robert	Robert	44951 Ash St	San Jose	Gold Miner	Methodist	Republican	Lower				
Thomas	Thomas	45284 Sycamore St	San Jose	Gold Miner	Methodist	Republican	Lower				
Charles	Charles	45617 Poplar St	San Jose	Gold Miner	Methodist	Republican	Lower				
Edward	Edward	45950 Chestnut St	San Jose	Gold Miner	Methodist	Republican	Lower				
Frank	Frank	46283 Elm St	San Jose	Gold Miner	Methodist	Republican	Lower				
George	George	46616 Oak St	San Jose	Gold Miner	Methodist	Republican	Lower				
John	John	46949 Pine St	San Jose	Gold Miner	Methodist	Republican	Lower				
William	William	47282 Cedar St	San Jose	Gold Miner	Methodist	Republican	Lower				
James	James	47615 Birch St	San Jose	Gold Miner	Methodist	Republican	Lower				
Robert	Robert	47948 Spruce St	San Jose	Gold Miner	Methodist	Republican	Lower				
Thomas	Thomas	48281 Maple St	San Jose	Gold Miner	Methodist	Republican	Lower				
Charles	Charles	48614 Walnut St	San Jose	Gold Miner	Methodist	Republican	Lower				
Edward	Edward	48947 Hickory St	San Jose	Gold Miner	Methodist	Republican	Lower				
Frank	Frank	49280 Ash St	San Jose	Gold Miner	Methodist	Republican	Lower				
George	George	49613 Sycamore St	San Jose	Gold Miner	Methodist	Republican	Lower				
John	John	49946 Poplar St	San Jose	Gold Miner	Methodist	Republican	Lower				
William	William	50279 Chestnut St	San Jose	Gold Miner	Methodist	Republican	Lower				
James	James	50612 Elm St	San Jose	Gold Miner	Methodist						

		Trivial Name	Locality	Sp.gr.	Analyst	Carbon
CX.	1. SP. DIAMOND.	Colourless	.	3.52	Lavoisier	.
CXI.	2. SP. SULPHUR.	.	.	.	.	.
CXII.	3. SP. AMBER.	.	.	1.08	Baumer	7.
CXIII.	4. SP. MELLITE.	Honeystone	Thuringia	1.55	Klaproth	.
		.	.	1.66	Vauquelin	.
CXIV.	5. SP. BITUMEN.					
	a. Liquid	Naphta	.	.80	.	.
	b. Viscid	Mineral tar	.	.85	.	.
	c. Elastic	Cahoutchou	Castleton	.	Klaproth	6.25
		Dapêche	.	.	W. Allen	16.
		Cahoutchou	.	.	Ditto	6.
	d. Solid	Asphaltes	Albania	1.20	Klaproth	30.
		Retin asphalt	Bovey	1.13	Hatchet	.
		Ditto	Halle	.	Bucholz	.
CXV.	6. SP. COAL.					
	a. Compact	Jet	.	.	.	.
		Canal coal	.	1.23	Kirwan	75.
		Slaty ditto	Ayrshire	1.42	Ditto	47.6
		Ditto	Scotland	.	Mushet	39.43
		Ditto	Derbyshire	1.27	Ditto	48.37
	b. Foliated	Slate coal	Whitehaven	1.25	Kirwan	57.
		.	Wigan	1.26	Ditto	61.43
		.	Newcastle	1.27	Llandaff	58.
		.	Butterly	1.26	Mushet	52.89
		.	Walden	.	Richter	58.
		.	Sultz	.	Ditto	63.33
		.	Beilschovitch	.	Ditto	58.17
		.	Saarbrück	.	Brandhorn	83.5
		Friable	Roderan	.	Ditto	71.2
		Black shining	Lalaye	.	Ditto	77.6
		Ditto dull	Lopsau	.	Ditto	27.4
		Ditto earthy	Bouxweiler	.	.	19.6
	c. Brown coal	.	Bovey	1.13	Hatchet	45.
		Suturbrand	Iceland	.	Bergman	42.†
		Bitum. wood	Rello	.	Vauquelin	54.‡
		Earth coal	Schraplau	.	Klaproth	20.25
		Columnar coal	.	.	.	.
		Moor coal	De la Mothe	1.65	Héricart	65.5
		Earthy coal	.	.	.	.
CXVI.	7. SP. ANTHRACITE.	Blind coal	Kilkenny	1.52	Kirwan	97.3
		.	Duclos	.	Thury	97.25
		.	N. D. Devaux	.	Ditto	78.5
		.	Tarentais	1.3	Dolomieu	72.05
		.	Schemnitz	.	Panzenbg.	90.
		Slaty	.	.	Ditto	90.
		Conchoidal	Hesse	.	.	96.66
		Slaty	Pyrenees	1.8	Vauquelin	68.
CXVII.	8. SP. PLUMBAGO.	.	.	2.08	Berthollet	90.9
		.	.	.	Scheele	81.
		.	.	.	Vauquelin	23.
		Impure	Pluffier	.	.	.
		.	Borrowdale	2.32	Schrader	85.25
		.	Spain	.	Ditto	88.15

† Carbon and earthy matter.

‡ Veg. earth.

§ Cubic inches

IMMABLE BODIES.

Bit. oil	Elas. fluid	Silex	Alum.	Lime	Iron	Water	Sulph.	Other ingred.	Authority
.
72.	.	.	.	.	5.	.	.	4.5 suc. acid	.
.	.	.	16.	.	.	38.	.	46. mel. acid	No. 85
.	.	*	*	*	.	.	.	66.6 ditto	Jameson
.
73.	42.	1.5	.25	2.	.75	1.5	.	.5 s. of lime	No. 83
80.	.	.	.	.	.	2.	.	2. carb. hyd.	Lucas
92.	.	.	.	.	.	.	.	2. ditto	Ditto
32.	36.	7.5	4.5	.75	1.25	.	.	.5 mang.	No. 113
41.	.	*	*	.	.	.	.	55. resin	Thomson
9.	.	.	.	.	.	.	.	91. ditto	An. ch. 83
.
21.7	.	.	.	.	.	.	.	3.12 sand	Kirwan
32.5	.	.	.	.	.	.	.	20. ashes	Ditto
.	56.57	.	.	.	.	.	.	4. ditto	Thomson
.	47.	.	.	.	.	.	.	4.63 ditto	Ditto
41.3	.	.	.	.	.	.	.	1.7 ashes	Kirwan
36.7	.	.	.	.	.	.	.	1.57 ditto	Ditto
40.	.	.	.	.	.	.	.	.	Ditto
.	42.83	.	.	.	.	.	.	4.28 ditto	Thomson
36.87	.	.	.	.	1.16	.	.	5.8 earth	Jameson
32.93	.	.	.	.	.	.	.	3.9 ditto	Ditto
37.9	.	.	.	.	.	.	.	3.9 ditto	Ditto
20.3	619.5	1.2	1.8	.11 s	.2	2.	.	.	Jour. 28
6.2	340.5	5.	3.4	.	.6	2.	.	.	Ditto
4.4	542.5	4.3	5.6	.6	.3	3.2	.	.	Ditto
4.8	268.5	8.	1.6	1.4	11.4	22.8	17.9	1.5 mang.	Ditto
17.4	440.5	10.2	10.	.	2.4	14.4	18.4	.5 m. acid	Ditto
.	55.	.	.	.	.	.	.	.	Thomson
.	58.	.	.	.	.	.	.	.	Aikin
.	.	.2	.	.7 s	12.7	.	.8	10.7 s. of iron	Jameson
30.	67.5	.	.	2.5 s	1.	12. ||	.	14.5 earth	Ditto
.
.	.	5.	6.8	3.25	8.	.	10.5	.	Thury
.
.	.	.	.	.	.	.	.	3.7 ashes	Kirwan
.	.	.95	.3	.	1.5	.	.	.	Jour. 16
.	.	4.	6.8	2.25	6.45	.	2. ¶	.	Ditto
.	.	13.19	3.29	.	3.47	.	8. ¶	.	Ditto
.	.	2.	5.	.	3.	.	.	.	Ditto
.	.	4.	4.	.	2.	.	.	.	Aikin
.	.	.	2.	.	1.33	.	.	.	Ditto
.	.	30.	.	.	2.	.	.	.	Tab. com.
.	.	.	.	.	9.1	.	.	.	Lucas
.	.	.	.	.	10.	.	.	9. oxygen	.
.	.	38.	37.	.	2.	.	.	.	Aikin
.	.	3.5	2.3	.	5.8	.	.	3.15 titan.	Annals
.	.	1.5	1.2	.	.	.	.	1.55 ditto +	Ditto

|| Acidulous water.

¶ Loss.

+ With .5 copper.

NAME		RESIDENCE		OCCUPATION		DATE	
J. A. BROWN		123 Main St.		Farmer		1880	
W. H. JONES		456 Oak St.		Teacher		1880	
T. M. SMITH		789 Elm St.		Merchant		1880	
C. D. WILSON		101 Pine St.		Physician		1880	
R. L. GARDNER		234 Cedar St.		Blacksmith		1880	
M. K. HARRIS		567 Birch St.		Lawyer		1880	
J. P. MILLER		890 Spruce St.		Engineer		1880	
S. W. TAYLOR		1122 Ash St.		Miner		1880	
L. E. ANDERSON		1445 Willow St.		Farmer		1880	
H. G. ROBERTS		1768 Maple St.		Teacher		1880	
F. C. PHILLIPS		2091 Oak St.		Merchant		1880	
D. M. EVANS		2414 Elm St.		Physician		1880	
K. L. GREEN		2737 Pine St.		Blacksmith		1880	
N. H. BAKER		3060 Cedar St.		Lawyer		1880	
P. J. NELSON		3383 Birch St.		Engineer		1880	
Q. R. HENRY		3706 Spruce St.		Miner		1880	
R. S. COOPER		4029 Ash St.		Farmer		1880	
S. T. FISHER		4352 Willow St.		Teacher		1880	
T. U. CARTER		4675 Maple St.		Merchant		1880	
U. V. PERKINS		5000 Oak St.		Physician		1880	
V. W. ROBERTS		5323 Pine St.		Blacksmith		1880	
W. X. HARRIS		5646 Cedar St.		Lawyer		1880	
X. Y. MILLER		5969 Birch St.		Engineer		1880	
Y. Z. TAYLOR		6292 Spruce St.		Miner		1880	
Z. A. ANDERSON		6615 Ash St.		Farmer		1880	

		Trivial Name	Locality	Sp.gr.	Analyst	Gold
CXVIII.	1. GEN. PLATINA.	.	<i>Native</i>	15.6	Haüy	.
		.	<i>Purified</i>	20.98	Ditto	.
CXIX.	2. GEN. GOLD.	.	<i>Pure</i>	19.25	Ditto	.
		Brass yellow	Bohemia	.	Lampad.	96.9
		Electrum	Siberia	.	Klaproth	36
		Aurifer. silver	.	10.6	Fordyce	28.
CXX.	3. GEN. SILVER.	.	Purified	10.47	Haüy	.
	1. SP. NATIVE.	Cristallised	Johangeorgen.	.	John	.
	2. SP. ANTIMONIAL.	Spiesglanz	Wolfach	.	Klaproth	.
		<i>Coarse-grained</i>	Ditto	.	Ditto	.
		<i>Massive</i>	Andreasberg	9.82	Ditto	.
		.	Ditto	.	Abich.	.
		.	Ditto	.	Vauquelin	.
	<i>Ferro arsen.</i>	.	Ditto	.	Klaproth	.
		Pacos	Peru	.	Ditto	.
	3. SP. SULPHURATED ANTIM. SILVER.	Red silver ore	Andreasberg	.	Klaproth	.
		.	Freyberg	.	Ditto	.
		.	Andreasberg	.	Ditto	.
		.	.	.	Vauquelin	.
		.	.	.	Thenard	.
		.	.	.	Lampad.	.
		.	Johangeorgen.	.	Ditto	.
		.	.	.	Proust	.
	4. SP. SULPHURATED.	Sprödglasserz	Freyberg	.	Klaproth	.
		Silver glance	Freyberg	.	Ditto	.
		.	Joachimstal	.	Sage	.
		.	Ditto	.	Bergman	.
	5. SP. CARBONATE.	.	Wolfach	.	Selb	.
	6. SP. MURIATE.	Horn silver	Andreasberg	4.8	Klaproth	.
		Ditto	Peru	.	Ditto	.
		Ditto <i>carthy</i>	Andreasberg	.	Ditto	.
CXXI.	4. GEN. MERCURY.	.	Congeaed	15.61	.	.
	1. SP. NATIVE.	.	.	13.56	Haüy	.
	2. SP. ARGENTIFEROUS.	Amalgam	Deuxponts	14.11	Cordier	72.5
		.	Ditto	10.	Klaproth	64.
		.	.	.	Heyer	75.
	3. SP. SULPHURET.	Cinnabar	Almaden	6.9	Sage	80.
		.	N. Marktel	8.16	Klaproth	85.
		.	Deuxponts	.	Lampad.	81.
		.	Japan	7.71	Klaproth	84.5
		Hepatic	Idria	7.10	Ditto	81.8
	4. SP. MURIATE.	Corneous mer	Obermuschel	.	Bergman	70.
		.	.	.	Ditto	75.
		.	Saxony	.	Klaproth	67.75
		.	Creu Valence	.	Fernandez	9.92
		.	Ditto	.	Ditto	13.

† Concrete s. acid.

‡ With 1. Silex.

§ With .25 s. acid.

||

LIC MINERALS.

Silver	Antim.	Sulph.	Iron	Arsenic	Acid	Water	Loss	Other ingred.	Authority
.
.
2.	.	.	1.1	.	.	.	.	.	Jameson
64.	.	.	.	.	.	.	.	.	Thomson
72.	.	.	.	.	.	.	.	.	Ditto
99.	1.	.	.	.	.	.	.	.	Leon 12
84.	16.	.	.	.	.	.	.	.	No. 68
76.	24.	.	.	.	.	.	.	.	Ditto
77.	23.	.	.	.	.	.	.	.	No. 91
75.25	24.75	.	.	.	.	.	.	.	Ditto
78.	22.	.	.	.	.	.	.	.	Haüy
12.75	4.	.	44.25	38.	.	.	.	.	No. 9
14.	.	.	71.	.	.	8.5	.	4.5 silex	No. 118
60.	20.3	17.7	.	.	8. +	.	.	.	No. 9
62.	18.5	11.	.	.	8.5 +	.	.	.	Ditto
60.	19.	17.	.	.	.	.	.	4. oxyg.	No. 206
56.67	16.13	15.07	.	.	.	.	.	12.13 ditto	Tab. com.
58.	23.5	16.	.	.	.	.	2.5	.	Ditto
54.27	16.13	17.57	.	.	.	.	.	11.85 ditto	Thomson
61.	19.	11.1	.	.9	7. s	.	.	.	Jameson
58.3 s	33.5 s	.	3.	.	.	3.	.	3. sand	Tab. com
66.5	10.	12.	5.	.	.	.	.	.5 copper †	No. 9
85.	.	15.	.	.	.	.	.	.	Ditto
84.	.	16.	.	.	.	.	.	.	Thury
75.	.	25.	.	.	.	.	.	.	Jameson
72.	15.5 c	.	.	.	12. c	.	.5	.	Tab. com.
67.75	.	.	6.	.	21. M	.	.	1.7 alum. §	No. 9
76.	.	.	.	.	16.4 M	.	.	7.6 oxyg.	No. 119
24.64	.	.	.	.	8.25 M	.	.	67.08 alum. ||	No. 9
Silver	Copper	Sulph.	Iron	Lime	Acid	Alum	Loss	Other ingred.	
.
27.5	.	.	.	.	.	.	.	.	Lucas
36.	.	.	.	.	.	.	.	.	No. 9
25.	.	.	.	.	.	.	.	.	Kidd
.	.	20.	.	.	.	.	.	.	Ditto
.	.	14.25	.	.	.	.	.	.	No. 120
.	.	15.2	4.7	.	.	.	.	.	Jameson
.	.	14.75	.	.	.	.	.	.	No. 120
.	.02	13.57	.2	.	.	.95	.73	2.3 carbon †	No. 121
.	.	.	.	.	20. M	.	.	.	Thury
.	.	.	.	.	24.5 M	.	.	.	Ditto
.	.	.	.	.	21. M	.5	4.25	.25 lime |||	An. ch. 6
.08	18.76	16.	8.25	26.5 c	.	3.5	8.01	9. unknown	An. ch. 28
.08	21.	18.5	4.5	25.25 c	.	3.	5.75	9. ditto	Ditto

With a trace of copper.

† With .65 silex.

||| With 0.25 s. acid.

CXXII

1890-1891

1. 1st January

2. 1st February

3. 1st March

4. 1st April

5. 1st May

6. 1st June

7. 1st July

8. 1st August

9. 1st September

10. 1st October

11. 1st November

12. 1st December

13. 1st January

14. 1st February

15. 1st March

16. 1st April

17. 1st May

18. 1st June

19. 1st July

20. 1st August

21. 1st September

22. 1st October

23. 1st November

24. 1st December

25. 1st January

26. 1st February

27. 1st March

28. 1st April

29. 1st May

30. 1st June

31. 1st July

32. 1st August

33. 1st September

34. 1st October

35. 1st November

36. 1st December

37. 1st January

38. 1st February

39. 1st March

40. 1st April

CXXII.	Trivial Name	Locality	Sp-gr.	Analyst	Lead
5. GENUS, LEAD.					
1. SP. NATIVE.					
2. SP. SULPHURET.	Galena	Durham	.	Thomson	85.13
	.	Louisiana	7.5	Meade	72.
	.	Kirschwald	6.82	Vauquelin	54.
	.	Kampfstein	7.1	Ditto	69.
	.	Ecklesberg	7.4	Ditto	68.69
	.	Kantenbach	6.14	Ditto	64.
	Ditto quartzz	Savoy	3.56	Klaproth	9.
	.	Andreasberg	.	Ditto	34.5
	.	Cornwall	.	Ditto	39.
	Lt. w. sil. ore	Freyberg	.	Ditto	48.06
	Dark ditto	Ditto	.	Ditto	41.
3. SP. OXIDE.	.	.	.	.	.
4. SP. CARBONATE.	White lead ore	Zillerfeld	.	Westrumb	81.2
	.	Wanlockhead	6.48	Klaproth	77.
	.	Ildekanskoi	.	Bindheim	77.5
	.	Ditto	.	Ditto	74.
	.	Ditto	.	John	69.5
	.	Taininskoi	6.50	Ditto	78.5
	.	Siberia	.	Macquart	67.
	Comp.	Tainowitz	.	John	60.
	Black lead ore	.	.	Lampad.	78.5
5. SP. PHOSPHATE.	Green lead ore	Erlbach	6.07	Fourcroy	79.
	.	Zschopau	6.27	Klaproth	78.4
	.	Brisgaw	.	Ditto	77.1
	.	Erlbach	.	Vauquelin	45.18
	Brown var.	Brittany	.	Klaproth	78.58
	Yellow ditto	Wanlockhead	6.56	Ditto	80.
	.	Johangeorgen.	.	Langier	76.9
	.	Auvergne	6.75	Klaproth	76.
	.	Johangeorgen.	.	Rose	77.5
	.	Rosiers	6.84	Fourcroy	50.
6. SP. ARSENIATE.	.	Johangeorgen.	7.26	Rose	73.13
	.	Cornwall	.	Gregor	69.76
	.	Nertschink	6.04	Bindheim	35.
7. SP. CHROMATE.	Red lead spar	Ditto	5.75	Vauquelin	63.96
	.	Ditto	.	Ditto	65.1
	.	Ditto	.	Thenard	64.
	Brown var.	Mexico	.	Descostils	74.2
8. SP. MOLYBDATE.	Yellow lead ore	Carinthia	5.09	Klaproth	64.42
	.	Ditto	.	Hatchett	58.4
	.	Ditto	5.48	Macquart	58.75
9. SP. SULPHATE.	.	Anglesey	6.3	Klaproth	71.
	.	Wanlockhead	.	Ditto	70.5
	.	Derbyshire	.	Ditto	55.
10. SP. MURIATE.	Murio carb.	Ditto	6.06	Ditto	85.5
	.	Ditto	.	Chenevix	85.

† With 2.25 silver.

‡ With 1.75 m. acid.

§ W

LLIC MINERALS.

Sulph.	Acid	Antim.	Iron	Silex	Alum	Water	Loss	Other ingred.	Authority
13-2	.	.	.	.	.	.	.	.	.
24.	.	.	.	.	.	.	5.	.	Jameson
8.	.	.	*	4.	.	.	.	* silver	Am. Jour.
16.	.	.	.	.	.	.	.	38. sil. & lime	Jameson
16-18	.	.	.	.	.	.	.	15. ditto	Ditto
18.	.	.	.	.	.	.	.	16-13 ditto	Ditto
8.	.	.	.	.	.	.	.	16. ditto	Ditto
13-5	.	16.	7.	63.	6.	.	.	3. copper	Leon. 13
16.	.	28-5	13-75	2-5	.	.	1-25	16-25 ditto †	No. 128
12-25	.	7-88	1.	.	.	.	2.	13-5 ditto	Ditto
22.	.	21.	2-25	1-25	7.	.	1-91	20-4 silver	No. 9
.	.	.	1-75	.75	1.	.	2-75	9-25 ditto	Ditto
.	16.	c	3.	.	.	.	1-6	.9 lime	Thomson
.	16.	c	.	.	.	.	2.	5. oxyg.	No. 89
.	15.	c	1-25	.	.5	.	.	.	Jameson
4-84	15.	c	.25	.25	1.	4.	.	1. lime	Ditto
6.	15-5	c	.	8.	2-66	.	.	.	Leon. 12
.	24.	c	.	.	.	.	.	.	Ditto
.	12.	c	1-25	10-5	4-75	2-5	3.	6. oxyg.	Jameson
.	18.	c	.	.	.	2.	.	1. mang.	Leon.
.	18.	p	1.	.	.	2.	.	1-5 c. coal	Thomson
.	18-37	p	1.	.	.	.	.	.	An. ch. 2
.	19.	p	.1	.	.	.	.	1-7 m. acid	No. 87
.	18-17	p	.	32.	.	.	.	1-54 ditto	Ditto
.	19-73	p	.	.	.	.	.	4-05 oxyg.	Thomson
.	18.	p	.	.	.	.	.	1-65 m. acid	No. 187
.	9.	p	.	.	.	.	.	1-6 ditto	Ditto
.	13.	p	*	*	*	7.	1-7	4. ar. acid	Tab.com.
.	7-5	p	.	.	.	5.	.	7. ditto †	No. 207
.	14.	p	.	.	.	3.	1.	12-5 ditto §	Tab.com.
.	19-05	a	.	.	.	.	3.	29. do. oxide	An. ch. 2
.	26-4	a	.	.	.	.	1-7	4-37 oxyg.	Lucas
.	25.	a	14.	.	.	.	.	1-5 m. acid	Phil. Mag
.	36-4	ch	.	.	.	.	.	||	Lucas
.	34-9	ch	.	.	.	.	.	.	Tab.com.
.	36.	ch	.	.	.	.	.	.	Thomson
.	16.	ch	3-5	.	.	.	.	.	Ditto
.	34-25	MO	11.	.	.	.	4-8	1-5 m. acid	An. ch. 53
.	38.	MO	.	.	.	.	.	.	No. 63
.	28.	MO	.	4.	.	.	.	.	P. Trans.
.	24-8	S	1.	.	.	2.	.	.	Journal
.	25-75	S	.	.	.	2-25	.	.	No. 88.
.	45.	M	.	.	.	.	.	.	Ditto
.	8-5	M	.	.	.	*	.	6. c. acid	Thury
.	8.	M	.	.	.	.	1.	6. ditto	No. 86.
.	.	.	.	.	.	.	.	.	Thomson

With 1-5 m. acid.

|| With some silver & earthy mat.

Station	Depth	Time	Wind	Sea	Weather	Remarks
1	10	10	10	10	10	10
2	20	20	20	20	20	20
3	30	30	30	30	30	30
4	40	40	40	40	40	40
5	50	50	50	50	50	50
6	60	60	60	60	60	60
7	70	70	70	70	70	70
8	80	80	80	80	80	80
9	90	90	90	90	90	90
10	100	100	100	100	100	100
11	110	110	110	110	110	110
12	120	120	120	120	120	120
13	130	130	130	130	130	130
14	140	140	140	140	140	140
15	150	150	150	150	150	150
16	160	160	160	160	160	160
17	170	170	170	170	170	170
18	180	180	180	180	180	180
19	190	190	190	190	190	190
20	200	200	200	200	200	200
21	210	210	210	210	210	210
22	220	220	220	220	220	220
23	230	230	230	230	230	230
24	240	240	240	240	240	240
25	250	250	250	250	250	250
26	260	260	260	260	260	260
27	270	270	270	270	270	270
28	280	280	280	280	280	280
29	290	290	290	290	290	290
30	300	300	300	300	300	300
31	310	310	310	310	310	310
32	320	320	320	320	320	320
33	330	330	330	330	330	330
34	340	340	340	340	340	340
35	350	350	350	350	350	350
36	360	360	360	360	360	360
37	370	370	370	370	370	370
38	380	380	380	380	380	380
39	390	390	390	390	390	390
40	400	400	400	400	400	400
41	410	410	410	410	410	410
42	420	420	420	420	420	420
43	430	430	430	430	430	430
44	440	440	440	440	440	440
45	450	450	450	450	450	450
46	460	460	460	460	460	460
47	470	470	470	470	470	470
48	480	480	480	480	480	480
49	490	490	490	490	490	490
50	500	500	500	500	500	500

CXXXIII.	6. GENUS, NICKEL.	Trivial Name	Locality	Sp-gr.	Analyst	Nick
	1. SP. NATIVE.	Capill. pyrites	.	.	.	.
	2. SP. ARSENICAL.	Kupfer nickel	.	6.64	.	.
	3. SP. OXIDE.	Nickel ochre	.	.	Lampad.	67.
	4. SP. ANTIMONIAL.	.	Nassau	.	Klaproth	25.25
						Copper
CXXIV.	7. GENUS, COPPER.					
	1. SP. NATIVE.	.	Siberia	8.58	John	99.75
	2. SP. BLACK SULPH.	Copper glance	Cornwall	.	Chenevix	84.
		Ditto	Nova Scotia	.	Thomson	73.
		Ditto	Siberia	.	Klaproth	78.5
		Kupferglanz.	Rothenberg	4.86	Ditto	76.5
		Bunt Kupfer.	Hitterdahl	.	Ditto	69.
		Ditto	Rudelstadt	.	Ditto	58.
		Ditto	Siberia	.	Gueniveau	74.5
		Ditto	Ditto	.	Ditto	47.
	3. SP. YELLOW SULPH.	Copper pyrites	Cornwall	.	Chenevix	30.
		Ditto	Sainbel	4.16	Gueniveau	30.
		Ditto	Ditto	.	Ditto	30.5
		Ditto	Baigorie	.	Ditto	27.
		Ditto	Ditto	.	Ditto	28.
		Ditto	.	.	Lampad.	41.
		Ditto	.	.	Sage	40.
	4. SP. GREY SULPH.	Fahlerz	Airthrie	4.87	Thomson	19.2
		Ditto	Freyberg	.	Klaproth	41.
		Ditto	Ditto	.	Ditto	48.
		Ditto	Ditto	.	Ditto	42.5
		Ditto	Andreasberg	.	Ditto	16.25
		Ditto	Piémont	.	Napione	29.3
		Grey silver ore	Kremnitz	.	Klaproth	31.36
		Black ditto	Kapnick	.	Ditto	37.75
		Ditto	Poratch	.	Ditto	39.
		Ditto	Anaberg	.	Ditto	40.25
		Ditto	Zilla	.	Ditto	37.5
		Ditto	Wolfach	.	Ditto	25.5
		Ditto	Peru	3.91	Ditto	27.
	5. SP. OXIDE.	Ruby copper	Cornwall	3.88	Chenevix	85.5
		Ditto foliated	Siberia	.	Klaproth	91.
		Ditto	Catherineburg	6.	John	99.
		Ditto compact	Ditto	6.	Ditto	99.5
						Copper
	6. SP. BLUE CARBON.	Copper azure	Siberia	.	Klaproth	56.
		.	Ditto	.	Pelletier	68.
		.	.	.	Fontana	66.
		cristallised	Chessy	.	Vauquelin	56.

ALLIC MINERALS.

Iron	Antim.	Arsen.	Sulph.			Water	Loss	Other ingred.	Authority
.
23.2	.	.	.	.	.	1.5	8.3	.	Thomson
.	47.75	11.75	15.25	.	.	.	.	.	Aikin
Iron	Sulph.	Arsen.	Silver	Antim.	Zinc	Silex	Loss		
12	.	.	.	.	.	.	.	* gold	Leon. 12.
4.	12.	.	.	.	.	.	.	.	P. Trans.
1.	24.5	.	.	.	.	1.8	.22	.	Thomson
2.25	18.5	.	.	.	.	.75	.	.	No. 64
.5	22.	.	.	.	.	.	1.	.	No. 125
7.5	19.	.	.	.	.	.	.	4. oxyg.	No. 65
18.	19.	.	.	.	.	.	.	5. ditto	Ditto
1.5	20.5	.	.	.	.	.	3.5	.	Jour. 21
9.3	13.	.	.	.	.	25.	.	7. lime	Ditto
53.	12.	.	.	.	.	5.	.	.	P. Trans.
31.	36.5	.	.	.	1.	1.	.5	.	Jour. 21
33.	35.	.	.	.	*	1.	1.5	.	Ditto
30.	31.5	.	.	.	1.	.	.	8.5 residue	Ditto
29.	31.5	.	.	.	.	.	.	9. ditto	Ditto
17.1	45.1	.	.	.	.	.	.	.	Jameson
40.	20.	.	.	.	.	.	.	.	Ditto
51.	14.1	15.7	.	.	.	.	.	.	Ed. Trans.
22.5	10.	24.1	.4	.	.	.	2.	.	No. 126
25.5	10.	14.	.5	.	.	.	2.	.	Ditto
27.5	10.	15.6	.9	1.5	.	.	2.	.	Ditto
13.75	10.	.	2.25	16.	.	2.5	4.75	34.5 lead	Jameson
12.1	12.7	4.	.7	36.9	.	.	3.2	1.1 alum.	Ditto
3.3	11.5	.	14.75	34.09	.	.	4.68	.3 ditto	No. 9
3.25	28.	.	.25	22.	5.	.	3.75	.	No. 127
7.5	26.	.	.	19.5	.	.	1.75	6.25 merc.	Ditto
13.5	18.5	.75	.3	23.	.	.	3.7	.	Ditto
6.5	21.5	.	3.	29.	.	.	2.5	.	Ditto
7.	25.5	.	13.25	27.	.	.	1.75	.	Ditto
7.	27.75	.	10.25	23.5	.	.	2.75	1.75 lead	Ditto
.	.	.	.	.	.	.	.	11.5 oxyg.	P. Trans.
9.	.	.	.	.	.	.	.	.	No. 122
.25	.	.	.	.	.	.	.	.75 water	Leon. 12
.25	.	.	.	.	.	.	.	.25 ditto	Ditto
Acid	Oxyg.					Water	Loss		
24. c	14.	6.	.	.	No. 123.
19. c	9.	2.	.	.	Tab. com.
20. c	10.	2.	.	.	Thury
25. c	12.5	6.5	.	.	Journal

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		Trivial Name	Locality	Sp-gr.	Analyst	Copper
CXXIV.	7. GENUS, COPPER.					
	7. SP. GREEN CARBON.	Fibrous	Chessy	.	Vauquelin	56.1
		.	Siberia	.	Klaproth	58.
		.	Arragon	.	Proust	56.8
		.	China	3.57	Fontana	75.
		Copper green	Siberia	2.5	John	42.
		Chrysocolle	Ditto	.	Klaproth	40.
		Diopase	Ditto	3.3	Vauquelin	28.57
		Ditto	Ditto	.	Lowitz	55.
	8. SP. MURIATE.	Copper sand	Peru	.	Berthollet	52.
		.	Ditto	.	Proust	70.5
		.	Ditto	.	Ditto	46.8
		.	Chili	.	Ditto	76.5
		.	Ditto	.	Ditto	57.4
		.	Ditto	.	Klaproth	73.
	9. SP. PHOSPHATE.	.	Firneberg	.	Ditto	68.13
	10. SP. ARSENIATE.	Obtuse octoh.	Cornwall	2.88	Chenevix	49.
		Acute ditto	Ditto	4.28	Ditto	60.
		Lamellated	Ditto	2.54	Ditto	58.
		Ditto	Ditto	.	Vauquelin	39.
		Prismatic	Ditto	4.28	Chenevix	54.
		Capillary	Ditto	.	Ditto	51.
		Acicular	Ditto	.	Klaproth	50.62
		Ditto	Ditto	.	Vauquelin	69.
		Hematitiform	Ditto	.	Chenevix	50.
		Artificial	.	.	Ditto	50.
		Ditto	.	.	Ditto	35.
CXXV.	8. GENUS, IRON.					Iron
		.	Forged	7.78	.	.
		.	Melted	7.2	.	.
		Red oxide	.	.	Thomson	69.
		Black ditto	.	.	Ditto	78.5
	1. SP. NATIVE.	Tellure eisen	Kamsdorf	.	Klaproth	92.5
		Native steel	La Bouiche	7.74	St Memin	94.
		Meteoritic iron	See CXXI.			
	2. SP. MAGNETIC.	Titaniferous	Aberdeenshire	4.76	Thomson	98.7
		Do. less excess	.	.	.	85.3
		Ditto	Puy en Valais	.	Cordier	82.
		.	Neidermenich	.	Ditto	79.
		.	Saint Quay	.	Descostils	86.
		.	Teneriffe	.	Cordier	79.
	3. SP. SPECULAR.	.	Grengesberget	.	Hisinger	94.38
		.	.	.	Brochi	88.
		Vol. eisenglass	Vesuvius	3.88	Klaproth	66.

‡ With 1. phos.

§ 14. excess.

LIC MINERALS.

Acid	Oxyg.	Sulph.	Silex	Alum	Lime	Water	Loss	Other ingred.	Authority
21.25 c	14.	.	.	.	.	8.65	.	.	Journal
18. c	12.5	.	.	.	.	11.5	.	.	No. 66
27. c	14.2	.	1.	.	1.	.	.	.	Journal
19.4 c	.	.	.	.	.	5.6	.	.	Kirwan
3. c	.	7.63	28.37	.	1.5 s	17.5	.	.	Leon 12
7. c	10.	.	26.	.	.	12.	.	.	No. 124
18.67 c	.	.	28.57	.	24.18	.	.	.	Tab. com.
.	.	.	33.	.	.	12.	.	.	Lucas
10. m	11.	.	11.	.	.	12.	.	1. c. iron	Tab. com
11.4 m	.	.	.	.	.	18.1	.	.	Ditto
9.5 m	11.5	.	17.	.	.	15.	.	.	Thury
10.6 m	.	.	.	.	.	12.7	2.	.	Tab. com.
10. m	14.6	.	.	.	4.	12.	.	2. iron	Thury
10.1 m	.	.	.	.	.	16.9	.	.	No. 95
30.95 p	.	.	.	.	.	.	.	.	No. 96
14. a	.	.	.	.	.	35.	2.	.	P. Trans.
39.7 a	.	.	.	.	.	.	.3	.	Ditto
21. a	.	.	.	.	.	21.	.	.	Ditto
43. a	.	.	.	.	.	17.	1.	.	Tab. com.
30. a	.	.	.	.	.	16.	.	.	P. Trans.
29. a	.	.	.	.	.	18.	2.	.	Ditto
45. a	.	.	.	.	.	3.3	.88	.	No. 94
31. a	.	.	.	.	.	.	.	.	Tab. com.
29. a	.	.	.	.	.	21.	.	.	P. Trans.
27. a	.	.	.	.	.	22.	.	.	Ditto
39.5 a	.	.	.	.	.	24.	.	.	Ditto
Oxyg.	Titan.	Mang.	Copper	Silex	Alum	Lime	Loss		
.
.
31.	.	.	.	.	.	.	.	.	Thomson
21.5	.	.	.	.	.	.	.	.	Ditto
.	.	.	1.5	.	.	.	.	6. lead	No. 130
.	.	.	.	.	.	.	.	4. carbon †	Journal
.	12.65	.	.	1.5	.	.	.	1. arsenic §	R.d. Trans.
.	9.5	.	.	1.5	.	.	2.7	1. ditto	Ditto
.	12.6	4.5	.	.	*	.	3.	* chrome	Journal
.	15.9	2.6	.	.	1.	.	.	.	Ditto
.	8.	2.	.	.	*	.	.	* ditto	Ditto
.	14.8	1.6	.	.	.8	.	.	.	Ditto
.	.	.	.	.	.	2.75 p	.	1. bitum. ||	Leon. 12
.	.	.75	.	.5	.	.	2.33	8.5 s. iron †	.
.	.	.	.	29.5	4.	.	.	.25 soda	No. 131

|| With a trace of mag. † With 8. s. acid.

No.	Name	Age	Sex	Occupation	Religion	Marital Status	Date of Birth	Place of Birth	Date of Arrival	Place of Arrival	Date of Departure	Place of Departure	Remarks
1	John Smith	25	M	Farmer	Methodist	Married	1850	Ohio	1875	New York	1876	Ohio	
2	Mary Jones	22	F	Housewife	Methodist	Married	1853	Ohio	1875	New York	1876	Ohio	
3	James Brown	30	M	Teacher	Methodist	Married	1845	Ohio	1875	New York	1876	Ohio	
4	Elizabeth White	28	F	Teacher	Methodist	Married	1847	Ohio	1875	New York	1876	Ohio	
5	William Green	35	M	Blacksmith	Methodist	Married	1840	Ohio	1875	New York	1876	Ohio	
6	Anna Miller	20	F	Housewife	Methodist	Married	1855	Ohio	1875	New York	1876	Ohio	
7	Robert Taylor	27	M	Farmer	Methodist	Married	1848	Ohio	1875	New York	1876	Ohio	
8	Sarah Wilson	24	F	Housewife	Methodist	Married	1851	Ohio	1875	New York	1876	Ohio	
9	Thomas Moore	32	M	Teacher	Methodist	Married	1843	Ohio	1875	New York	1876	Ohio	
10	Elizabeth Clark	29	F	Teacher	Methodist	Married	1846	Ohio	1875	New York	1876	Ohio	
11	John Davis	38	M	Blacksmith	Methodist	Married	1837	Ohio	1875	New York	1876	Ohio	
12	Mary Evans	21	F	Housewife	Methodist	Married	1854	Ohio	1875	New York	1876	Ohio	
13	James Hill	33	M	Farmer	Methodist	Married	1842	Ohio	1875	New York	1876	Ohio	
14	Anna Scott	23	F	Housewife	Methodist	Married	1852	Ohio	1875	New York	1876	Ohio	
15	Robert Lee	26	M	Farmer	Methodist	Married	1849	Ohio	1875	New York	1876	Ohio	
16	Sarah Young	25	F	Housewife	Methodist	Married	1850	Ohio	1875	New York	1876	Ohio	
17	Thomas King	31	M	Teacher	Methodist	Married	1844	Ohio	1875	New York	1876	Ohio	
18	Elizabeth Hall	28	F	Teacher	Methodist	Married	1847	Ohio	1875	New York	1876	Ohio	
19	John Adams	36	M	Blacksmith	Methodist	Married	1839	Ohio	1875	New York	1876	Ohio	
20	Mary Baker	22	F	Housewife	Methodist	Married	1853	Ohio	1875	New York	1876	Ohio	
21	James Nelson	34	M	Farmer	Methodist	Married	1841	Ohio	1875	New York	1876	Ohio	
22	Anna Phillips	24	F	Housewife	Methodist	Married	1851	Ohio	1875	New York	1876	Ohio	
23	Robert Wright	27	M	Farmer	Methodist	Married	1848	Ohio	1875	New York	1876	Ohio	
24	Sarah Green	26	F	Housewife	Methodist	Married	1849	Ohio	1875	New York	1876	Ohio	
25	Thomas White	32	M	Teacher	Methodist	Married	1843	Ohio	1875	New York	1876	Ohio	
26	Elizabeth Brown	29	F	Teacher	Methodist	Married	1846	Ohio	1875	New York	1876	Ohio	
27	John Miller	37	M	Blacksmith	Methodist	Married	1838	Ohio	1875	New York	1876	Ohio	
28	Mary Taylor	21	F	Housewife	Methodist	Married	1854	Ohio	1875	New York	1876	Ohio	
29	James Wilson	33	M	Farmer	Methodist	Married	1842	Ohio	1875	New York	1876	Ohio	
30	Anna Moore	23	F	Housewife	Methodist	Married	1852	Ohio	1875	New York	1876	Ohio	
31	Robert Clark	26	M	Farmer	Methodist	Married	1849	Ohio	1875	New York	1876	Ohio	
32	Sarah Adams	25	F	Housewife	Methodist	Married	1850	Ohio	1875	New York	1876	Ohio	
33	Thomas Hill	31	M	Teacher	Methodist	Married	1844	Ohio	1875	New York	1876	Ohio	
34	Elizabeth Scott	28	F	Teacher	Methodist	Married	1847	Ohio	1875	New York	1876	Ohio	
35	John Baker	36	M	Blacksmith	Methodist	Married	1839	Ohio	1875	New York	1876	Ohio	
36	Mary Nelson	22	F	Housewife	Methodist	Married	1853	Ohio	1875	New York	1876	Ohio	
37	James Phillips	34	M	Farmer	Methodist	Married	1841	Ohio	1875	New York	1876	Ohio	
38	Anna Wright	24	F	Housewife	Methodist	Married	1851	Ohio	1875	New York	1876	Ohio	
39	Robert Green	27	M	Farmer	Methodist	Married	1848	Ohio	1875	New York	1876	Ohio	
40	Sarah White	26	F	Housewife	Methodist	Married	1849	Ohio	1875	New York	1876	Ohio	
41	Thomas Brown	32	M	Teacher	Methodist	Married	1843	Ohio	1875	New York	1876	Ohio	
42	Elizabeth Miller	29	F	Teacher	Methodist	Married	1846	Ohio	1875	New York	1876	Ohio	
43	John Taylor	37	M	Blacksmith	Methodist	Married	1838	Ohio	1875	New York	1876	Ohio	
44	Mary Wilson	21	F	Housewife	Methodist	Married	1854	Ohio	1875	New York	1876	Ohio	
45	James Moore	33	M	Farmer	Methodist	Married	1842	Ohio	1875	New York	1876	Ohio	
46	Anna Clark	23	F	Housewife	Methodist	Married	1852	Ohio	1875	New York	1876	Ohio	
47	Robert Adams	26	M	Farmer	Methodist	Married	1849	Ohio	1875	New York	1876	Ohio	
48	Sarah Hill	25	F	Housewife	Methodist	Married	1850	Ohio	1875	New York	1876	Ohio	
49	Thomas Scott	31	M	Teacher	Methodist	Married	1844	Ohio	1875	New York	1876	Ohio	
50	Elizabeth Baker	28	F	Teacher	Methodist	Married	1847	Ohio	1875	New York	1876	Ohio	
51	John Nelson	36	M	Blacksmith	Methodist	Married	1839	Ohio	1875	New York	1876	Ohio	
52	Mary Phillips	22	F	Housewife	Methodist	Married	1853	Ohio	1875	New York	1876	Ohio	
53	James Wright	34	M	Farmer	Methodist	Married	1841	Ohio	1875	New York	1876	Ohio	
54	Anna Green	24	F	Housewife	Methodist	Married	1851	Ohio	1875	New York	1876	Ohio	
55	Robert White	27	M	Farmer	Methodist	Married	1848	Ohio	1875	New York	1876	Ohio	
56	Sarah Brown	26	F	Housewife	Methodist	Married	1849	Ohio	1875	New York	1876	Ohio	
57	Thomas Miller	32	M	Teacher	Methodist	Married	1843	Ohio	1875	New York	1876	Ohio	
58	Elizabeth Taylor	29	F	Teacher	Methodist	Married	1846	Ohio	1875	New York	1876	Ohio	
59	John Wilson	37	M	Blacksmith	Methodist	Married	1838	Ohio	1875	New York	1876	Ohio	
60	Mary Moore	21	F	Housewife	Methodist	Married	1854	Ohio	1875	New York	1876	Ohio	
61	James Clark	33	M	Farmer	Methodist	Married	1842	Ohio	1875	New York	1876	Ohio	
62	Anna Adams	23	F	Housewife	Methodist	Married	1852	Ohio	1875	New York	1876	Ohio	
63	Robert Hill	26	M	Farmer	Methodist	Married	1849	Ohio	1875	New York	1876	Ohio	
64	Sarah Scott	25	F	Housewife	Methodist	Married	1850	Ohio	1875	New York	1876	Ohio	
65	Thomas Baker	31	M	Teacher	Methodist	Married	1844	Ohio	1875	New York	1876	Ohio	
66	Elizabeth Nelson	28	F	Teacher	Methodist	Married	1847	Ohio	1875	New York	1876	Ohio	
67	John Phillips	36	M	Blacksmith	Methodist	Married	1839	Ohio	1875	New York	1876	Ohio	
68	Mary Wright	22	F	Housewife	Methodist	Married	1853	Ohio	1875	New York	1876	Ohio	
69	James Green	34	M	Farmer	Methodist	Married	1841	Ohio	1875	New York	1876	Ohio	
70	Anna White	24	F	Housewife	Methodist	Married	1851	Ohio	1875	New York	1876	Ohio	
71	Robert Brown	27	M	Farmer	Methodist	Married	1848	Ohio	1875	New York	1876	Ohio	
72	Sarah Miller	26	F	Housewife	Methodist	Married	1849	Ohio	1875	New York	1876	Ohio	
73	Thomas Taylor	32	M	Teacher	Methodist	Married	1843	Ohio	1875	New York	1876	Ohio	
74	Elizabeth Wilson	29	F	Teacher	Methodist	Married	1846	Ohio	1875	New York	1876	Ohio	
75	John Moore	37	M	Blacksmith	Methodist	Married	1838	Ohio	1875	New York	1876	Ohio	
76	Mary Clark	21	F	Housewife	Methodist	Married	1854	Ohio	1875	New York	1876	Ohio	
77	James Adams	33	M	Farmer	Methodist	Married	1842	Ohio	1875	New York	1876	Ohio	
78	Anna Hill	23	F	Housewife	Methodist	Married	1852	Ohio	1875	New York	1876	Ohio	
79	Robert Scott	26	M	Farmer	Methodist	Married	1849	Ohio	1875	New York	1876	Ohio	
80	Sarah Baker	25	F	Housewife	Methodist	Married	1850	Ohio	1875	New York	1876	Ohio	
81	Thomas Nelson	31	M	Teacher	Methodist	Married	1844	Ohio	1875	New York	1876	Ohio	
82	Elizabeth Phillips	28	F	Teacher	Methodist	Married	1847	Ohio	1875	New York	1876	Ohio	
83	John Wright	36	M	Blacksmith	Methodist	Married	1839	Ohio	1875	New York	1876	Ohio	
84	Mary Green	22	F	Housewife	Methodist	Married	1853	Ohio	1875	New York	1876	Ohio	
85	James White	34	M	Farmer	Methodist	Married	1841	Ohio	1875	New York	1876	Ohio	
86	Anna Brown	24	F	Housewife	Methodist	Married	1851	Ohio	1875	New York	1876	Ohio	
87	Robert Miller	27	M	Farmer	Methodist	Married	1848	Ohio	1875	New York	1876	Ohio	
88	Sarah Taylor	26	F	Housewife	Methodist	Married	1849	Ohio	1875	New York	1876	Ohio	
89	Thomas Wilson	32	M	Teacher	Methodist	Married	1843	Ohio	1875	New York	1876	Ohio	
90	Elizabeth Moore	29	F	Teacher	Methodist	Married	1846	Ohio	1875	New York	1876	Ohio	
91	John Clark	37	M	Blacksmith	Methodist	Married	1838	Ohio	1875	New York	1876	Ohio	
92	Mary Adams	21	F	Housewife	Methodist	Married	1854	Ohio	1875	New York	1876	Ohio	
93	James Hill	33	M	Farmer	Methodist	Married	1842	Ohio	1875	New York	1876	Ohio	
94	Anna Scott	23	F	Housewife	Methodist	Married	1852	Ohio	1875	New York	1876	Ohio	
95	Robert Baker	26	M	Farmer	Methodist	Married	1849	Ohio	1875	New York	1876	Ohio	
96	Sarah Nelson	25	F	Housewife	Methodist	Married	1850	Ohio	1875	New York	1876	Ohio	
97	Thomas Phillips	31	M	Teacher	Methodist	Married	1844	Ohio	1875	New York	1876	Ohio	
98	Elizabeth Wright	28	F	Teacher	Methodist	Married	1847	Ohio	1875	New York	1876	Ohio	
99	John Green	36	M	Blacksmith	Methodist	Married	1839	Ohio	1875	New York	1876	Ohio	
100	Mary White	22	F	Housewife	Methodist	Married	1853	Ohio	1875	New York	1876	Ohio	

CXXV.	8. GENUS, IRON.	Trivial Name	Locality	Sp.gr.	Analyst	Iron
	4. SP. SULPHURET.	Iron pyrites	Dodecahedron	.	Hatchet	47.85
		.	Cube, striated	.	Ditto	47.5
		.	Ditto, smooth	.	Ditto	47.3
		.	Radiated	.	Ditto	46.4
		.	Ditto	.	Ditto	45.66
		.	Magnetic	4.51	Ditto	63.5
		.	Cube	.	Bucholz	44.85
		.	Radiated	.	Ditto	48.29
		.	.	.	Proust	47.36
		.	.	.	Gueniveau	52.76
		.	.	.	Ditto	53.69
	5. SP. OXIDE.	Cris. in cubes	Toeschnitz	.	Bucholz	70.
	<i>Compact</i>	Red Hematite	.	18.9	Lampad.	65.4
		Ditto	Ardèche	4.3	Descostils	92.
		Ditto	Ditto	4.9	Ditto	85.
		Ditto	Framont	4.8	Daubuisson	90.
		Ditto	Ditto	5.	Ditto	94.
	<i>Soft</i>	Ditto	Ardèche	4.1	Descostils	40.2
		Red iron froth	.	.	Henry	66.
		Brown hemat.	Bergzabern	3.8	Daubuisson	79.
		Ditto	Ditto	.	Calmelet	78.
		Ditto	Vicdessos	3.9	Daubuisson	82.
	<i>Compact</i>	Ditto	Bergzabern	.	Ditto	84.
		Ditto	Ditto	.	Ditto	64.
		Ditto	Pyranees	.	Ditto	81.
		Ditto	Vicdessos	3.4	Ditto	81.
		Ditto	Voigtsberg	.	Ditto	69.
		Black hemat.	Bas Rhin	3.2	Vauquelin	80.25
		Ditto	Freyberg	2.4	Klaproth	67.
		Grey ore	Deuxponts	.	Drapier	59.
		Prismatic	Odelo	.	Brochi	50.
		Lenticular	Doubs	.	Daubuisson	73.
		Ditto	Radnitz	6.67	Lampad.	64.
		Ditto	Colebrookdale	.	Descostils	50.
		.	Blancheland	.	Ditto	54.
		.	Gieslautern	.	Ditto	38.6
		.	Ditto	.	Ditto	40.
		.	Haute Loire	.	Berthier	51.
		.	Du Garde	.	Boulanger	57.3
		Ætite	Dep. de L'orme	3.3	Daubuisson	78.
		Pea ore	Hogau	.	Klaproth	53.
		.	Penné	5.2	Vauquelin	30.
		Com. iron stone	Brandau	.	Lampad.	35.
		.	Ditto	.	Ditto	39.
		Umber	Cyprus	.	Klaproth	48.
		Yellow ocre	Elba	.	Daubuisson	83.
		Bog ore	Klempnow	.	Klaproth	66.
		.	Lusace	.	Daubuisson	61.

† With 8. s. acid.

‡ With .5 bitumen.

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IC MINERALS.

Sulph.	Oxyg.	Mang.	Silex	Alum	Lime	Mag.	Loss	Other ingred.	Authority
52-15	P. Trans.
52.	Ditto
52-7	Ditto
53-6	Ditto
54-34	Ditto
36-5	Ditto
51-15	.	.	4.	.	.	.	.	.	An. ch. 68
49-61	.	.	2.	.	.	.	.	.	Ditto
52-64	Ditto
47-2	Ditto
46-31	Ditto
.	29.	.	.	.	.	.	.	.	Journal
.	.	2-7	10-7	9-3	.	.	.	.	Jameson
.	.	1-2	2-4	*	2.	*	.8	1-6 calcin.	Journal
.	.	2.	8.	.8	.	.	1-2	3. ditto	Ditto
.	.	*	2.	.	1.	.	4.	3. ditto	Ditto
.	.	*	2.	.	*	.	2.	2. ditto	Ditto
.	.	2-5	11.	.	23.	.	.	20-2 ditto	Ditto
.	28-5	.	4-5	1-25	.	.	.	.	Thomson
.	.	2.	3.	.	.	.	1.	15. calcin.	Journal
.	.	7.	11.	.	.	.	4.	.	Ditto
.	.	2.	1.	*	.	.	1.	14. calcin.	Ditto
.	.	1.	2.	.	.	.	2.	11. ditto	Ditto
.	.	8.	25.	.	.	.	3.	.	Ditto
.	.	*	2.	*	*	.	6.	11. calcin.	Ditto
.	.	.	4.	.	.	.	4.	12. ditto	Ditto
.	.	3.	10.	3.	*	.	2.	13. ditto	Ditto
.	.	.	3-75	.	.	.	1.	15. water	.
.	25. ditto †	No. 311
.	.	2-4	9-4	.6	.2	.	.	29-5 calcin.	An. ch. 84
.	.	.	30-5	7.	.	.	2-5	13. water	Leon. 13
.	.	1.	9.	.	*	.	3.	14. calcin.	Journal
.	.	.	7-5	23.	.	.	.5	5. water	Thomson
.	.	2-6	10-6	2.	1-6	2-4	.	32. calcin.	An. ch. 84
*	.	2-4	13.	1.	4-2	2.	.	24-6 ditto	Ditto
.	.	1-8	32.	4.	1-8	4-3	.	20. ditto	Ditto
.	.	1-6	19.	3-4	2-8	4.	.	32. ditto	Ditto
.	.	1-5	9.	7.	1.	*	1.	29. ditto †	Ditto
.	.	1-4	5-2	1-2	1-8	3-6	.	31. ditto §	Ditto
.	.	*	7.	1.	*	.	1.	13. ditto	Journal
.	.	1.	23.	6-5	.	.	.	14-5 water	No. 134
.	18.	.	15.	31.	.	.	.	6. ditto	Thomson
3.	.	.	11.	39.	.	2.	.	10. ditto	Ditto
1.	.	.	5.	40.	.	1.	.	9. ditto	Ditto
.	.	20.	13.	5.	.	.	.	14. ditto	No. 85
.	.	*	5.	*	.	.	.	12. calcin.	Journal
.	.	1-5	.	.	.	.	.	23. water ||	No. 133
.	.	7.	6.	2.	*	.	2.	19. calcin.	Journal

With 1-6 carbon.

|| With 8. phosphorus.

EXHIBIT		1880-1881		1881-1882		1882-1883		1883-1884		1884-1885		1885-1886		1886-1887		1887-1888		1888-1889		1889-1890		1890-1891		1891-1892		1892-1893		1893-1894		1894-1895		1895-1896		1896-1897		1897-1898		1898-1899		1899-1900		1900-1901		1901-1902		1902-1903		1903-1904		1904-1905		1905-1906		1906-1907		1907-1908		1908-1909		1909-1910		1910-1911		1911-1912		1912-1913		1913-1914		1914-1915		1915-1916		1916-1917		1917-1918		1918-1919		1919-1920		1920-1921		1921-1922		1922-1923		1923-1924		1924-1925		1925-1926		1926-1927		1927-1928		1928-1929		1929-1930		1930-1931		1931-1932		1932-1933		1933-1934		1934-1935		1935-1936		1936-1937		1937-1938		1938-1939		1939-1940		1940-1941		1941-1942		1942-1943		1943-1944		1944-1945		1945-1946		1946-1947		1947-1948		1948-1949		1949-1950		1950-1951		1951-1952		1952-1953		1953-1954		1954-1955		1955-1956		1956-1957		1957-1958		1958-1959		1959-1960		1960-1961		1961-1962		1962-1963		1963-1964		1964-1965		1965-1966		1966-1967		1967-1968		1968-1969		1969-1970		1970-1971		1971-1972		1972-1973		1973-1974		1974-1975		1975-1976		1976-1977		1977-1978		1978-1979		1979-1980		1980-1981		1981-1982		1982-1983		1983-1984		1984-1985		1985-1986		1986-1987		1987-1988		1988-1989		1989-1990		1990-1991		1991-1992		1992-1993		1993-1994		1994-1995		1995-1996		1996-1997		1997-1998		1998-1999		1999-2000		2000-2001		2001-2002		2002-2003		2003-2004		2004-2005		2005-2006		2006-2007		2007-2008		2008-2009		2009-2010		2010-2011		2011-2012		2012-2013		2013-2014		2014-2015		2015-2016		2016-2017		2017-2018		2018-2019		2019-2020		2020-2021		2021-2022		2022-2023		2023-2024		2024-2025		2025-2026		2026-2027		2027-2028		2028-2029		2029-2030		2030-2031		2031-2032		2032-2033		2033-2034		2034-2035		2035-2036		2036-2037		2037-2038		2038-2039		2039-2040		2040-2041		2041-2042		2042-2043		2043-2044		2044-2045		2045-2046		2046-2047		2047-2048		2048-2049		2049-2050		2050-2051		2051-2052		2052-2053		2053-2054		2054-2055		2055-2056		2056-2057		2057-2058		2058-2059		2059-2060		2060-2061		2061-2062		2062-2063		2063-2064		2064-2065		2065-2066		2066-2067		2067-2068		2068-2069		2069-2070		2070-2071		2071-2072		2072-2073		2073-2074		2074-2075		2075-2076		2076-2077		2077-2078		2078-2079		2079-2080		2080-2081		2081-2082		2082-2083		2083-2084		2084-2085		2085-2086		2086-2087		2087-2088		2088-2089		2089-2090		2090-2091		2091-2092		2092-2093		2093-2094		2094-2095		2095-2096		2096-2097		2097-2098		2098-2099		2099-2100		2100-2101		2101-2102		2102-2103		2103-2104		2104-2105		2105-2106		2106-2107		2107-2108		2108-2109		2109-2110		2110-2111		2111-2112		2112-2113		2113-2114		2114-2115		2115-2116		2116-2117		2117-2118		2118-2119		2119-2120		2120-2121		2121-2122		2122-2123		2123-2124		2124-2125		2125-2126		2126-2127		2127-2128		2128-2129		2129-2130		2130-2131		2131-2132		2132-2133		2133-2134		2134-2135		2135-2136		2136-2137		2137-2138		2138-2139		2139-2140		2140-2141		2141-2142		2142-2143		2143-2144		2144-2145		2145-2146		2146-2147		2147-2148		2148-2149		2149-2150		2150-2151		2151-2152		2152-2153		2153-2154		2154-2155		2155-2156		2156-2157		2157-2158		2158-2159		2159-2160		2160-2161		2161-2162		2162-2163		2163-2164		2164-2165		2165-2166		2166-2167		2167-2168		2168-2169		2169-2170		2170-2171		2171-2172		2172-2173		2173-2174		2174-2175		2175-2176		2176-2177		2177-2178		2178-2179		2179-2180		2180-2181		2181-2182		2182-2183		2183-2184		2184-2185		2185-2186		2186-2187		2187-2188		2188-2189		2189-2190		2190-2191		2191-2192		2192-2193		2193-2194		2194-2195		2195-2196		2196-2197		2197-2198		2198-2199		2199-2200		2200-2201		2201-2202		2202-2203		2203-2204		2204-2205		2205-2206		2206-2207		2207-2208		2208-2209		2209-2210		2210-2211		2211-2212		2212-2213		2213-2214		2214-2215		2215-2216		2216-2217		2217-2218		2218-2219		2219-2220		2220-2221		2221-2222		2222-2223		2223-2224		2224-2225		2225-2226		2226-2227		2227-2228		2228-2229		2229-2230		2230-2231		2231-2232		2232-2233		2233-2234		2234-2235		2235-2236		2236-2237		2237-2238		2238-2239		2239-2240		2240-2241		2241-2242		2242-2243		2243-2244		2244-2245		2245-2246		2246-2247		2247-2248		2248-2249		2249-2250		2250-2251		2251-2252		2252-2253		2253-2254		2254-2255		2255-2256		2256-2257		2257-2258		2258-2259		2259-2260		2260-2261		2261-2262		2262-2263		2263-2264	
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CXXV.

8. GENUS, IRON.	Trivial Name	Locality	Sp.gr.	Analyst	Iron
6. SP. CARBONATE.	White	Allevard	.	Bergman	25.
	Brown	Ditto	.	Ditto	38.
	Ditto	Ditto	.	Ditto	22.
	Black iron sp.	.	.	Ditto	62.
	Ditto	.	.	Berthier	57.
	Ditto, fibrous	Cantal	.	Ditto	59.
	White	Ditto	3.65	Ditto	49.
	Grey	Ditto	3.82	Ditto	52.
	Dark red	Grenoble	3.71	Ditto	50.
	White	Vizilles	.	Ditto	50.
	Yellowish grey	Baigorie	3.76	Ditto	60.
	Light coloured	Ditto	3.82	Ditto	61.5
	Opake brown	St Agnes, Isere	3.73	Ditto	59.
	Black <i>decomp.</i>	Ditto	.	Ditto	81.
	Ditto	Rancie	.	Ditto	80.
	Ditto	Biscay	4.02	Ditto	86.
	White	Saxony	3.6	Ditto	52.
	.	Vaunaveys	3.6	Ditto	49.
	Dark brown	Crotz	3.63	Ditto	57.
	Brown <i>decomp.</i>	Carinthia	.	Ditto	72.
	.	Siberia	.	Ditto	82.
	Brown spar	Baireuth	3.33	Bucholz	59.5
	.	Harzgerode	.	Ditto	55.
	.	Baireuth	.	Klaproth	58.
	.	Dankerode	.	Ditto	57.5
	Fibrous	Steinheim	.	Ditto	63.75
	.	Bovano	.	Brochi	54.5
	.	Ditto	.	Ditto	57.54
	.	Ditto	.	Ditto	67.
	.	Ditto	.	Ditto	17.
	Com.cl. iron st.	.	.	Richter	35.5
	Ditto	.	.	Ditto	42.5
	Ditto	.	.	Ditto	39.1
	Ditto	.	.	Ditto	33.9
	Ditto	.	.	Ditto	20.1
7. SP. PHOSPHATE.	Laminated	Isle de France	2.6	Laugier	41.25
	.	.	.	Cadet	41.1
	.	Alleyras	.	Berthier	43.
8. SP. ARSENIATE.	Manganesian	Limoges	3.65	Vauquelin	31.
	Earthy	Ekartsberg	.	Klaproth	47.2
	Cube ore	Cornwall	3.	Chenevix	45.5
9. SP. CHROMATE.	.	Ditto	.	Vauquelin	48.
	Cupreous	Ditto	.	Chenevix	27.5
	.	Gassin	4.03	Tassaert	36.
	.	France	4.03	Vauquelin	34.7
	.	Siberia	.	Laugier	34.
10. SP. MURIATE.	.	Kreiglach	4.5	Klaproth	33.6

† With c.

ALLIC MINERALS.

Acid	Mang.	Silex	Alum	Lime	Mag.	Water	Loss	Other ingred.	Authority
6.8 c	4.5	.	.	48. c	7.	17.2	.	3. s. iron	Journal
.	24. c	.	.	38. c	.	.	.	.	Thomson
.	28. c	.	.	50. c	.	.	.	.	Ditto
16.9 c	.	.	.	5.	.	16.1	.	.	Journal
35. c	1.5	.	.	*	5.5	.	1.	.	Ditto
33. c	.	1.6	*	.04	4.	.	.	.2 coal	Ditto
36.5 c	.5	2.	.	*	11.	.	1.	.	Ditto
34.5 c	12.	1.	.	*	2.8	.	.	.	Ditto
37.5 c	1.	.	.	.5	11.	.	.	.	Ditto
37. c	2.	.	.	.8	10.	.	2.	.	Ditto
37. c	1.5	.	.	*	4.	.	.	.	Ditto
34. c	.5	1.	.	*	3.8	.	.	.	Ditto
34. c	1.5	.	.	*	5.6	.	.	.	Ditto
13. c	2.	1.5	.	1.	*	.	1.5	.	Ditto
8.5 c	6.	2.5	.	.5	.	.	2.5	.	Ditto
7. c	2.	3.	.	.	.	.	2.	.	Ditto
37. c	2.	.	.	*	12.6	.	.	.	Ditto
37.5 c	1.5	.	.	.3	12.5	.	.	.	Klaproth
33. c	6.	.	.	*	4.	.	.	.	Journal
21. c	6.	.	.	1.	*	.	.	.	Ditto
13. c	1.	2.	.	1.	*	.	.	.	Ditto
36. c	.	.	.	2.5	.	2.5	.	.	Ditto
35. c	10.	.	.	.	.	.	.	.	Ditto
35. c	4.5	.	.	.5	.75	.	1.5	.	No. 131
36. c	3.5	.	.	1.35	.	.	.	.	Ditto
34. c	.75	.	.	.	.25	.	1.25	.	Leon. 13
33.25 +	4.25	.75	2.	.38	1.25	.	3.37	.25 zinc	Ditto
32.38 +	6.	.25	.	.25	1.	.	3.87	.	Ditto
19. +	3.75	.25	2.25	5.	1.25	.	3.75	.25 zinc	Ditto
36. +	18.	.5	.	27.	1.5	.	.	.	Ditto
28.1 c	1.5	14.3	22.6	.	.	.	.	.	Thomson
27.1 c	3.	13.8	13.6	.	.	.	.	.	Ditto
32.1 c	1.1	11.9	15.8	.	.	.	.	.	Ditto
28.1 c	1.1	23.9	13.	.	.	.	.	.	Ditto
28.8 c	1.	19.9	30.2	.	.	.	.	.	Ditto
19.25 P	.	1.25	5.	.	.	31.25	.	.	Tab. com.
36.9 P	.	3.	5.8	9.1	.	13.1	.	.	Journal
23.1 P	.3	*	*	.	.	34.4	.	.	Ditto
27. P	42.	.	.	.	.	.	.	.	An. ch. 41
32. P	.	.	.	.	.	20.	.	.	No. 132.
31. A	.	4.	.	.	.	10.5	.	9. copper	P. Trans.
18. A	.	.	.	2.	.	32.	.	.	Tab. com.
33. A	.	3.	.	.	.	12.	1.5	22.5 copper	Thomson
63.6 ch	.	.	.	.	.	.	.4	.	An. ch. 31
43. ch	.	2.	20.3	.	.	.	.	.	Tab. com.
53. ch	.	1.	11.	.	.	.	1.	.	An. ch. 78
55.5 ch	.	2.	6.	.	.	.	3.5	.	Ditto 64

acid and water.

		Trivial Name	Locality	Sp. gr.	Analyst	Tin
CXXVI.	9. GENUS, TIN.	.	Purified	7.29	Haüy	.
		Tinstone	Cornwall	6.95	Klaproth	77.5
	1. SP. OXIDE.	.	Schlackenwald	6.76	Ditto	75.
		.	Ehrenfreiders.	.	Lampad.	68.
		.	Goanaxuato	5.06	Descostils	66.
		Wood tin	Cornwall	6.45	Vauquelin	91.
		.	Ditto	.	John	94.5
	2. SULPHURET.	Bell metal ore	St Agnes	.	Klaproth	26.5
		.	Ditto	.	Ditto	34.
						Zinc
CXXVII.	10. GENUS, ZINC.	.	Purified	7.19	Haüy	.
		Red	New Jersey	.	Bruce	76.
	1. SP. OXIDE.	Calamine	.	.	Bergman	84.
		.	Wanlockhead	.	Klaproth	66.
		.	Freyberg	.	Pelletier	38.
		.	Regbania	.	Smithson	65.
		.	Limbourg	.	Bonesuel	88.9
	2. SP. SULPHURET.	Blend, yellow	Scharfenberg	.	Bergman	64.
		Ditto	Brisgau	3.63	Hecht	62.
		Ditto, brown	Sahlberg	.	Bergman	44.
		Ditto	Alston Moor	.	Thomson	58.8
		Ditto	Cornwall	4.04	Ditto	58.64
		Ditto, black	Dannemore	.	Bergman	45.
		Ditto	Bowallon	.	Ditto	52.
		Ditto	.	.	Lampad.	53.
	3. SP. CARBONATE.	.	Altai, Siberia	.	John	50.
		.	Bleyberg	.	Smithson	71.4
		.	Mendip	.	Ditto	64.8
		.	Derbyshire	.	Ditto	65.2
		.	Holywell	.	Ditto	69.
						Bism.
CXXVIII.	11. GENUS, BISMUTH.	.	Purified	9.82	.	.
		.	Hungary	9.02	Klaproth	95.
	1. SP. NATIVE.	.	.	.	Sage	60.
	2. SP. SULPHURET.	Bism. glance	.	.	Klaproth	47.24
		<i>Cupricus</i>	Wittichen	.	Ditto	27.
		<i>Argentiferous</i>	Schatzlach	.	John	43.2
	3. SP. OXIDE.	Needle ore	Siberia	6.12	Lampad.	56.3
	4. SP. CARBONATE.	Bism. ochre	.	4.37	.	.

† With 1. arsenic.

IC MINERALS.

Oxyg.	Sulph.	Iron	Copper	Mang.	Silex	Alum	Loss	Other ingred.	Authority
.
21.5	.	.25	.	.	.75	.	.	.	No. 61
23.75	.	.5	.	.	.75	.	.	.	Thomson
16.	.	9.	.	.	7.	.	.	.	Jameson
29.	.	5.	.	.	.	.	.	.	An. ch. 53
.	.	9.	.	.	.	.	.	.	Thomson
.	.	1.	.	.5	1.	3.	.	* lime	Leon 12
.	30.5	12.	30.	.	.	.	.	.	No. 213
.	25.	2.	36.	.	.	.	.	.	No. 62
Sulph	Acid	Iron	Silex	Alum	Lime	Water	Loss		
.	.	8.	.	.	.	.	.	.	.
.	.	3.	12.	1.	.	.	.	16. oxyg.	Am. Jour.
.	.	.	33.	.	.	.	.	.	Thury
.	.	.	50.	.	.	12.	.	.	Thomson
.	.	.	25.	.	.	4.4	2.3	.	Tab. com
.	.	6.9	2.8	.	1.4	.	.	.	P. Trans.
20.	4. F	5.	.	.	.	.	.	.	Journal
21	.	3.	.	2.	.	4.	2.	5. lead †	Tab. com.
17.	.	5.	24.	5.	.	5.	.	.	Journal
23.5	.	8.4	7.	.	.	.	2.	.	Thomson
28.64	.	11.96	.76	.	.	.	.	.	Ditto
29.	.	9.	4.	.	.	6.	.	6. lead †	Annals
26.	.	8.	6.	.	.	4.	.	4. copper	.
26.	.	12.	.	.	.	4.	.	5. arsenic	Thomson
12.5	36. c	.	.	.	*	.5	.	1. c. mang.	Ditto
.	13.5 c	.	.	.	.	15.1	.	.	Leon. 12
.	35.2 c	.	.	.	.	.	.	.	P. Trans.
.	34.8 c	.	.	.	.	.	.	.	Ditto
.	28. c	1.	.	.	.	.	.	.	Ditto
Sulp	Silver	Lead	Nickel	Copper	Iron	Tellure	Loss		
.
5.	.	.	.	.	.	.	.	.	No. 16
40.	.	.	.	.	*	.	.	.	.
12.58	.	.	.	34.66	.	.	.	* oxyg.	No. 129
16.3	15.	33.	.	.9	4.3	.	.	.	No. 67
11.58	.	24.32	1.58	12.10	.	1.32	5.9	.	An. ch. 67
.	.	.	.	.	5.2	.	.	4.1 c. acid †	Thomson
.

† With 3.4 water.

Activity	Other	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Jan 10	12
Jan 11	12
Jan 12	12
Jan 13	12
Jan 14	12
Jan 15	12
Jan 16	12
Jan 17	12
Jan 18	12
Jan 19	12
Jan 20	12
Jan 21	12
Jan 22	12
Jan 23	12
Jan 24	12
Jan 25	12
Jan 26	12
Jan 27	12
Jan 28	12
Jan 29	12
Jan 30	12
Jan 31	12
Feb 1	12
Feb 2	12
Feb 3	12
Feb 4	12
Feb 5	12
Feb 6	12
Feb 7	12
Feb 8	12
Feb 9	12
Feb 10	12
Feb 11	12
Feb 12	12
Feb 13	12
Feb 14	12
Feb 15	12
Feb 16	12
Feb 17	12
Feb 18	12
Feb 19	12
Feb 20	12
Feb 21	12
Feb 22	12
Feb 23	12
Feb 24	12
Feb 25	12
Feb 26	12
Feb 27	12
Feb 28	12
Feb 29	12
Mar 1	12
Mar 2	12
Mar 3	12
Mar 4	12
Mar 5	12
Mar 6	12
Mar 7	12
Mar 8	12
Mar 9	12
Mar 10	12
Mar 11	12
Mar 12	12
Mar 13	12
Mar 14	12
Mar 15	12
Mar 16	12
Mar 17	12
Mar 18	12
Mar 19	12
Mar 20	12
Mar 21	12
Mar 22	12
Mar 23	12
Mar 24	12
Mar 25	12
Mar 26	12
Mar 27	12
Mar 28	12
Mar 29	12
Mar 30	12
Mar 31	12
Apr 1	12
Apr 2	12
Apr 3	12
Apr 4	12
Apr 5	12
Apr 6	12
Apr 7	12
Apr 8	12
Apr 9	12
Apr 10	12
Apr 11	12
Apr 12	12
Apr 13	12
Apr 14	12
Apr 15	12
Apr 16	12
Apr 17	12
Apr 18	12
Apr 19	12
Apr 20	12
Apr 21	12
Apr 22	12
Apr 23	12
Apr 24	12
Apr 25	12
Apr 26	12
Apr 27	12
Apr 28	12
Apr 29	12
Apr 30	12
May 1	12
May 2	12
May 3	12
May 4	12
May 5	12
May 6	12
May 7	12
May 8	12
May 9	12
May 10	12
May 11	12
May 12	12
May 13	12
May 14	12
May 15	12
May 16	12
May 17	12
May 18	12
May 19	12
May 20	12
May 21	12
May 22	12
May 23	12
May 24	12
May 25	12
May 26	12
May 27	12
May 28	12
May 29	12
May 30	12
May 31	12
Jun 1	12
Jun 2	12
Jun 3	12
Jun 4	12
Jun 5	12
Jun 6	12
Jun 7	12
Jun 8	12
Jun 9	12
Jun 10	12
Jun 11	12
Jun 12	12
Jun 13	12
Jun 14	12
Jun 15	12
Jun 16	12
Jun 17	12
Jun 18	12
Jun 19	12
Jun 20	12
Jun 21	12
Jun 22	12
Jun 23	12
Jun 24	.	.												

		Trivial Name	Locality	Sp.gr.	Analyst	Cobalt
CXXXIX.	12. GEN. COBALT.					
	1. SP. ARSENICAL.	White cob. ore	Schneeberg	.	John	28.
		Grey cob. ore	Tunaberg	6.45	Klaproth	44.
		Ditto	Ditto	.	Tassaert	36.66
		Ditto	Bieber	.	Laugier	12.7
		White	Ditto	.	Ditto	9.6
		Grey cob. ore	Cornwall	5.57	Klaproth	20.
		Argentiferous	Allemont	.	Schreiber	43
	2. SP. OXIDE.	Black cob. ore	Cheshire	.		
	3. SP. ARSENIATE.	Red cobalt	Reichelsdorf	.	Bucholz	39.
	4. SP. SULPHURET.	.	Ridershytan	.	Hisinger	433
						Arsen
CXXX.	13. GEN. ARSENIC.	.	Regulus	8.31	Aikin	.
	1. SP. NATIVE.	.	Erzgebirge	5.72	John	96.97
	2. SP. OXIDE.	.	.	.		
	3. SP. SULPHURET.	Realgar	Pouzzol	3.35	Bergman	90.
		Ditto	.	.	Klaproth	69.
		Orpiment	.	.	Ditto	62.
		Ditto	.	3.35	Thenard	57.
	4. SP. MARTIAL SULPH.	Mispickel	.	.	Vauquelin	53.
		.	.	.	Thomson	48.1
		.	.	.	Chevreul	43.4109
CXXXI.	14. GEN. MANGANESE.	.	Purified	6.85	Haüy	.
	1. SP. OXIDE.	Radiated	Ilfeld	4.75	Klaproth	90.5
		.	Moravia	.	Ditto	89.
		.	St Diey	4.07	Vauquelin	82.
		.	Tholey	.	Cordier	45.5
		.	Vesoul	.	Ditto	44.
		Compact	F. Micaud	.	Ditto	35.
		Brown oxide	Férgueux	.	Ditto	50.
		Ditto	Romaneche	.	Vauquelin	50.
		Ditto	L'Aveline	.	Ditto	65.
		Black earthy	Hartz	.	Klaproth	68.
		Ditto	Dalecarlia	.	Ditto	60.
		Ditto	Ringersdorf	.	Westrumb	45.
		Ditto, cobaltic	Ditto	.	Klaproth	16.
		Ditto	.	.	Berzelius	47.7
		Siliceous	Dannemora	.	Murray	23.54
	2. SP. CARBONATE.	Red ore	.	.	Lampad.	48.
		Ditto	Bohemia	.	Descostils	53.
		Ditto	.	.	Vauquelin	85.
	3. SP. SULPHURET.	Black ore	Szekeeremb	3.95	Klaproth	82.
	4. SP. PHOSPHATE.	.	Limoges	3.65	Vauquelin	42.

† With 2. copper.

LLIC MINERALS.

Arsen.	Sulph.	Iron	Silver	Silex	Alum	Water	Loss	Other ingred.	Authority
65.75	.	5.	.	.	.	.	.	1.25 mang.	Leon. 12
55.5	.5	.	.	.	.	.	.	.	No. 69
49.	6.5	5.66	.	.	.	.	2.18	.	Lucas
50.	*	10.5	.	25.	.	.	.	.	An. ch. 85
68.5	7.	9.7	.	1.	.	.	.	.	Ditto
33.	.	24.	.	.	.	.	23.	.	Thomson
20.75	.	3.5	12.75	.	.	.	.	4.75 merc.	Thury
38. ac.	.	.	.	.	.	23.	.	.	Lucas
.	38.5	3.53	.	.33	.	.	.	14.4 copper	Aikin
Sulph.	Iron	Antim.	Silex			Water	Loss		
.	.	.	.	.	.	.	.	.	Leon 12
.	1.	3.	.	.	.	*	.	.	
10.	.	.	.	.	.	.	.	.	Tab. com.
31.	.	.	.	.	.	.	.	.	No. 215
38.	.	.	.	.	.	.	.	.	Ditto
43.	.	.	.	.	.	.	.	.	Tab. com.
15.3	19.7	.	12.	.	.	.	.	.	Thomson
15.	36.5	.	.	.	.	.	.	.	Ditto
20.13	39.93	.	.	.	.	.	.	.	Journal
Oxyg.	Iron	Silex	Alum	Lime	Baryt.	Water	Loss		
.	.	.	.	.	.	.	.	.	No. 112
2.25	.	.	.	.	.	7.	.25	.	Ditto
10.25	.	.	.	.	.	.5	.	.	Ditto
.	.	6.	.	7.	.	5.	.	.	Journal
38.	2.	7.5	.	.	1.5	.	5.5	.	Ditto
42.	.	5.	.	.	.	.	4.5	.	Ditto
33.	18.	3.	.	7.	4.	.	.	.	Ditto
17.	13.5	7.	.	6.	5.	.	1.5	.	Ditto
33.7	.	1.2	.	.	14.7	.	.	4. carbon	Ditto
17.	.	6.	.	7. c	.	5.	.	.	Ditto
.	6.5	8.	.	.	1.	17.5	.	1. carbon	No. 113
.	.	25.	.	.	.	13.	2.	.	Do. 136
.	14.	11.	7.5	2. c	.	.	.	1.25 copper	An. ch. 4
.	.	24.8	20.4	.	.	17.	.	19.4 cobalt ‡	No. 70
.	4.6	40.	.	1.5	.	.	.	.	Berzelius
.	10.03	34.04	18.07	16.56	.	.	.	.56 mag.	Annals
.	2.1	.9	.	.	.	.	.	49.2 c. acid	Jameson
.	8.	*	.	.	.	.	.	36.6 ditto	.
.	.	.	.	.	.	.	.	15. ditto	Thomson
.	.	.	.	.	.	.	.	11. sulph. §	No. 74
.	31.	.	.	.	.	.	.	17. p. acid	An. ch. 41

§ With 5. c. acid.

		Trivial Name	Locality	Sp.gr.	Analyst	Antim.
CXXXII.	15. GEN. ANTIMONY.	.	Melted	6.70	Hall	.
	1. SP. NATIVE.	.	Andreasberg	6.72	Klaproth	98.
	2. SP. SULPHURET.	Grey ore	Cornwall	4.51	Bergman	74. 95.
		Ditto	Ditto	.	J. Davy	74.06.
		.	Altenkirchen	6.58	Klaproth	47.75.
		Triple sulph.	Cornwall	5.76	Hatchett	24.23.
	3. SP. OXIDE.	White ore	Przibram	.	Klaproth	100.
		.	Allemont	.	Vauquelin	86.
	4. SP. SULPH. OXIDE.	Red antimony	Saxony	4.09	Klaproth	67.51.
						Uran.
CXXXIII.	16. GEN. URANIUM.					
	<i>Crystallised</i>	Uran mica	.	3.12	.	.
		Uran ochre	.	3.24	.	.
	<i>Massive</i>	Pitchblend	Joachimstal	7.5	Klaproth	86.5.
		Ditto	Eibenstock	.	Sage	78.
						Molyb.
CXXXIV.	17. GEN. MOLYBDENA					
		Wasserblei	.	4.74	Bucholz	60.
		.	.	.	Pelletier	45.
						Titan.
CXXXV.	18. GEN. TITANIUM.					
	1. SP. OXIDE.	Red schorl	Boinik	4.18	Klaproth	100.
		Menacanite	Cornwall	4.42	Gregor	45.
		Ditto	Ditto	.	Klaproth	45.25.
		Ditto	Ditto	.	Lampad.	43.5.
		Ditto	Transylvania	.	Ditto	87.
		Ditto	Ditto	.	Klaproth	84.
		Ditto	Botany Bay	.	Chenevix	40.
		Ditto	Uralian Moun.	4.67	Lowitz	53.
		Ditto	Bavaria	.	Vauquelin	49.
		Iserine	Gersdorf	4.5	Lampad.	59.1.
		Ditto	Aberdeenshire	4.49	Thomson	48.
		Ditto	Siver Don	.	Ditto	41.1.
		Ditto	Aschaffenberg	4.74	Klaproth	22.
		Ditto	Riesengebirge	4.65	Ditto	28.
		Ditto	Ufer	4.54	Ditto	14.
		Anatase	St Christophe	3.85	.	.
	2. SP. SILICO-CALCAREOUS.	Brown ore	Passau	3.51	Ditto	33.
		Ditto	Arendahl	4.24	Abildgard	58.
		Sphène	St Gothard	3.23	Cordier	33.3.
		Ditto	Ditto	3.49	Klaproth	45.
		Ditto	Arendahl	.	.	74.

ALIC MINERALS.

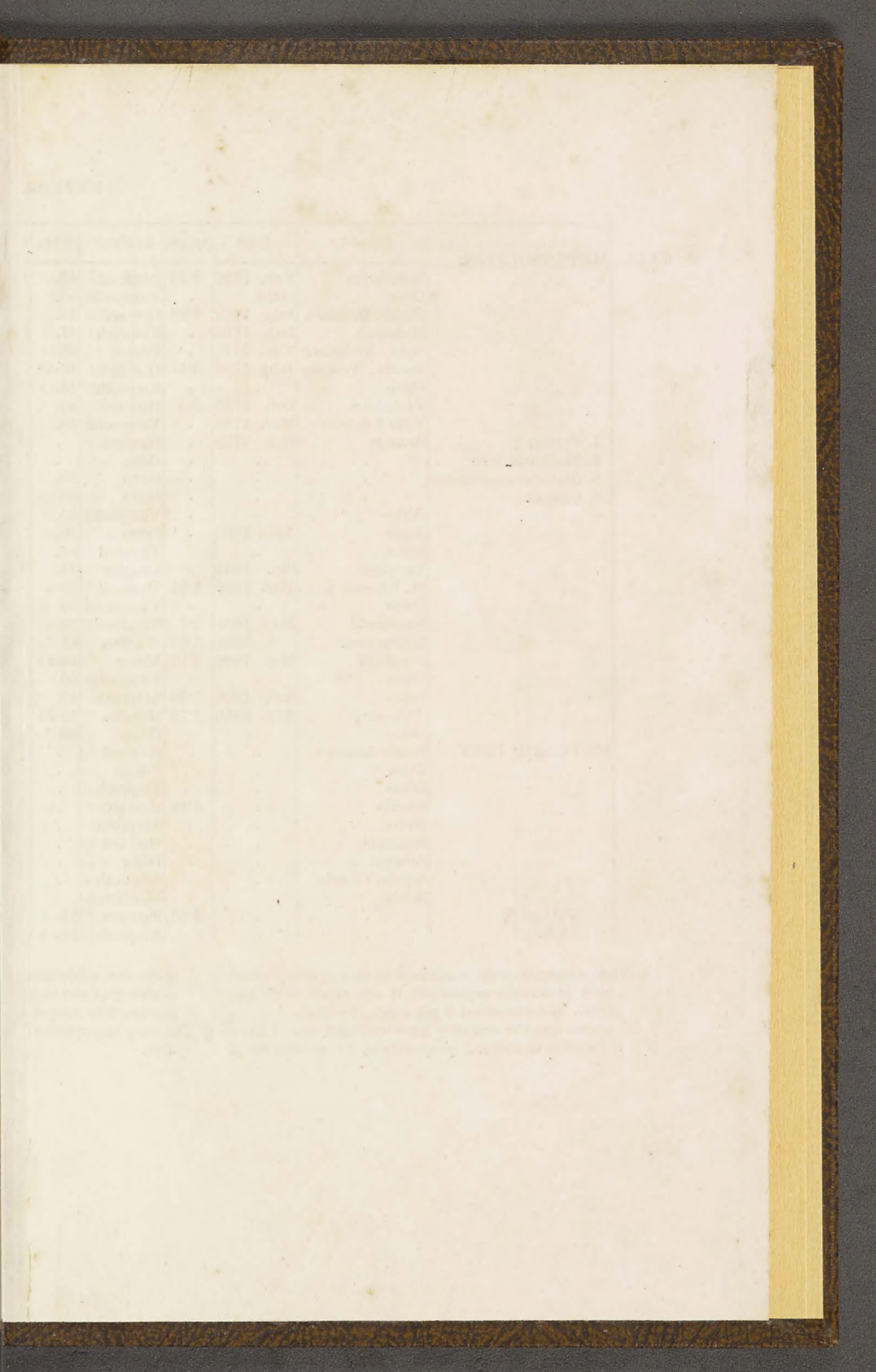
Sulph.	Oxyg.	Lead	Copper	Nickel	Iron	Silex	Loss	Other ingred.	Authority
.
26.	.	.	.	.	.25	.	.	1. silver	No. 90
25.94	.	.	.	.	.	.	.	.	Thomson
15.25	.	.	.	25.25	.	.	.	11.75 arsen.	Annals
17.	.	42.62	12.8	.	1 2	.	2.15	.	An. ch. 85
.	.	.	.	.	.	.	.	.	P. Trans.
19.7	10.5	.	.	.	3.	8.	3.	.	No. 93
.	.	.	.	.	.	.	.	.	Journal
.	.	.	.	.	.	.	.	.	No. 92
Sulph.	Iron	Lead	Silex						
.
.	2.5	6. s	5.	.	.	.	.	.	No. 57
2.	20.	.	.	.	.	.	.	.	Lucas
Sulph.									
40.	.	.	.	.	.	.	.	.	Journal
55.	.	.	.	.	.	.	.	.	Thury
-Iron	Mang.	Silex	Alum	Lime	Oxyg.	Water	Loss		
.	.	.	.	.	.	.	.	.	No. 14
46.	.	.	.	.	.	.	9.	.	Thomson
51.	.25	3.5	.	.	.	.	.	.	No. 59
50.4	.9	3.3	1.4	.	.	.	.	.	Thomson
9.	3.	.	.	.	.	.	1.	.	Jameson
14.	2.	.	.	.	.	.	.	.	No. 59
49.	.	11.	.	.	.	.	.	.	Thomson
47.	.	.	.	.	.	.	.	.	An. ch. 34
35.	2.	.	.	.	14.	.	.	.	Journal
31.1	.	.	.	.	.	.	.	10.2 uran	Jameson
48.	.	.	.	.	.	.	.	4. ditto	P. Mag.
39.4	.	16.8	3.2	.	.	.	.	3.4 ditto	Thomson
78.	.	.	.	.	.	.	.	.	No. 59
72.	.	.	.	.	.	.	.	.	Ditto 208
85.5	.5	.	.	.	.	.	.	.	Ditto 209
.
.	.	35.	.	33.	.	.	.	.	No. 15
.	.	22.	.	20.	.	.	.	.	Haüy
.	.	25.	.	32.2	.	.	6.5	.	Jameson
.	.	36.	.	16.	.	1.	.	.	No. 216
.	.	8.	.	18.	.	.	.	.	Haüy

Year	Month	Day	Time	Place	Event	Remarks
1890	Jan	1	10:00	St. Paul	Arrived	From New York
1890	Jan	2	10:00	St. Paul	Departed	For Chicago
1890	Jan	3	10:00	St. Paul	Arrived	From Chicago
1890	Jan	4	10:00	St. Paul	Departed	For New York
1890	Jan	5	10:00	St. Paul	Arrived	From New York
1890	Jan	6	10:00	St. Paul	Departed	For Chicago
1890	Jan	7	10:00	St. Paul	Arrived	From Chicago
1890	Jan	8	10:00	St. Paul	Departed	For New York
1890	Jan	9	10:00	St. Paul	Arrived	From New York
1890	Jan	10	10:00	St. Paul	Departed	For Chicago
1890	Jan	11	10:00	St. Paul	Arrived	From Chicago
1890	Jan	12	10:00	St. Paul	Departed	For New York
1890	Jan	13	10:00	St. Paul	Arrived	From New York
1890	Jan	14	10:00	St. Paul	Departed	For Chicago
1890	Jan	15	10:00	St. Paul	Arrived	From Chicago
1890	Jan	16	10:00	St. Paul	Departed	For New York
1890	Jan	17	10:00	St. Paul	Arrived	From New York
1890	Jan	18	10:00	St. Paul	Departed	For Chicago
1890	Jan	19	10:00	St. Paul	Arrived	From Chicago
1890	Jan	20	10:00	St. Paul	Departed	For New York
1890	Jan	21	10:00	St. Paul	Arrived	From New York
1890	Jan	22	10:00	St. Paul	Departed	For Chicago
1890	Jan	23	10:00	St. Paul	Arrived	From Chicago
1890	Jan	24	10:00	St. Paul	Departed	For New York
1890	Jan	25	10:00	St. Paul	Arrived	From New York
1890	Jan	26	10:00	St. Paul	Departed	For Chicago
1890	Jan	27	10:00	St. Paul	Arrived	From Chicago
1890	Jan	28	10:00	St. Paul	Departed	For New York
1890	Jan	29	10:00	St. Paul	Arrived	From New York
1890	Jan	30	10:00	St. Paul	Departed	For Chicago
1890	Jan	31	10:00	St. Paul	Arrived	From Chicago

		Trivial Name	Locality	Sp-gr.	Analyst.	Schee
CXXXVI.	19. GEN. WOLFRAM.					
	1. SP. FERRUGINOUS.	.	.	.	Elhuyars	65.
		.	.	.	Vauquelin	67.
		.	Cornwall	.	Klaproth	46.9
	2. SP. CALCAREOUS.	Tungsten	Schlackenwd.	6.01	Ditto	77.75
		.	Pengelly	5.75	Ditto	72.25
		.	Bitsberg	.	Scheele	65.
						Tellur
CXXXVII.	20. GEN. TELLURIUM.	.	Purified	6.11	.	.
		Native	Fatzabay	5.72	Klaproth	92.55
		Graphic ore	Offenbanya	.	Ditto	60.
		Yellow ore	Nagyag	.	Ditto	44.75
		Foliated ore	Ditto	.	Ditto	32.2
		Ditto grey	Ditto	.	Ditto	33.
						Tanta.
CXXXVIII.	21. GEN. TANTALUM.					
		Collumbite	America	5.91	Hatchett	87.
		Ditto	Ditto	5.87	Wollaston	80.
		Ytterbite	Finland	7.8	Ditto	85.
		Ditto	Ditto	7.95	Vauquelin	83.
		Ditto	Ditto	7.3	Klaproth	88.
		Yttr Tantal	Ditto	5.13	Vauquelin	45.
		Do. cristallised	Greenland	5.83	.	.
						Cerium
CXXXIX.	22. GEN. CERIUM.					
	1. SILICEOUS OXIDE.	Cerite.	Bastnaes	4.93	Hisinger	50.
		.	Ditto	.	Ditto	68.59
		.	Ditto	.	John	71.4
		.	Ditto	4.66	Klaproth	54.5
		.	Ditto	4.53	Vauquelin	63.
		.	Ditto	.	Thomson	44.
		.	Ditto	.	Ditto	33.9
	2. BROWN OXIDE.	Allanite	Greenland	.	Berzelius	28.19
		Cerin	Bastnaes	.	Wollaston	19.8
		.	Mysore			Chron
CXL.	23. GEN. CHROMIUM.					
		.	Burgandy	2.57	Drapier	10.5
		.	Ditto	2.61	Ditto	13.
		.	Ditto	2.5	Descostils	2.5

MINERALS.

Iron	Mang.	Silex	Lime				Loss	Other ingred.	Authority
13.5	22.	2.	.	.	.	.	.	.	Aikin
18.	6.25	1.5	.	.	.	.	7.25	.	Ditto
31.2	.	.	.	.	.	.	21.9	.	Ditto
.	.	3.	17.6	.	.	.	.	.	No. 75
1.25	.75	1.5	18.7	.	.	.	.	.	Ditto
.	.	4.	31.	.	.	.	.	.	Ditto
Gold	Silver	Lead	Copper	Iron	Sulph.				
.25	.	.	.	.	.	.	.	.	.
10.	10.	.	.	7.2	.	.	.	.	No. 73
26.75	8.5	19.5	.	.	.5	.	.	.	Ditto
9.	.	54.	1.3	.	3.	.	.	.	Ditto
8.5	.5	50.	.5	.	7.5	.	.	.	Thury
Iron	Mang.	Yttria							
21.	.	.	.	.	.	.	.	.	P. Trans.
15.	5.	.	.	.	.	.	.	.	Aikin
10.	4.	.	.	.	.	.	.	.	Ditto
2.	8.	.	.	.	.	.	.	.	Tab. com.
10.	2.	.	.	.	.	.	.	.	No. 169
*	.	*
.
Iron	Copper	Mang	Silex	Alum	Lime	Water	Loss		
22.	.	*	23.	.	5.5 c	.	.	.	An. ch. 50
2.	.	.	18.	.	1.25	9.6	.	*	Leon. 12
5.25	.35	.	18.	.	.	4.	.	.	Ditto
3.5	.	.	34.5	.	1.25	5.	.	.	No. 137
2.	.	.	17.5	.	4.	12.	1.5	.	An. ch. 54
4.	.	.	47.3	.	.	3.	1.7	.	E. Trans.
25.4	.	.	35.4	4.1	9.2	4.	12.	.	Ditto
20.72	.87	.	30.17	11.31	9.12	.	.	.	Journal
32.	.	.	34.	9.	.	.	.	.	Letter
Iron	Mang.	Silex	Alum	Lime			Loss		
*	*	64.	23.	2.5	.	.	.	.	Journal
2.	.	52.	27.	4.5	.	.	1.5	.	Ditto
1.	.	84.	4.5	.	.	.	8.	.	Ditto



CXLI. METEOROLITES.

	Locality	Date	Sp-gr.	Analyst	Silic	Alum.
	Ensisheim	Nov. 1492	2.23	Berthold	42.	17.
	Ditto	Ditto	.	Vauquelin	56.	.
	Plann, Bohemia	July 1753	4.28	Howard	45.	.
	Eichstadt	Jan. 1753	.	Klaproth	37.	.
	Sena, Arragon †	Nov. 1773	.	Proust	66.	.
	Sienna, Tuscany	June 1794	3.41	Howard	46.66	.
	Ditto	.	.	Klaproth	44.	.
	Yorkshire	Dec. 1795	3.5	Howard	50.	.
	Ville Franche	Mar. 1798	.	Vauquelin	46.	.
	Benares	Dec. 1798	.	Howard	.	.
1. Pyrites ‡	.	.	.	Ditto	.	.
2. Malleable iron	.	.	.	Ditto	50.	.
3. Globular concretions	.	.	.	Ditto	40.	.
4. Cement	.	.	.	Ditto	48.	.
	Ditto	.	.	Vauquelin	30.	.
	Aigle	April 1803	.	Thenard	46.	.
	Ditto	.	.	Laugier	34.	.
	Vaucluse	Oct. 1804	.	Thenard	20.5	.
	St. Etienne §	Mar. 1806	1.94	Vauquelin	30.	.
	Ditto	.	.	Klaproth	38.	1.
	Smolensk	May 1807	3.7	Warden	41.	1.
	Connecticut	1807	3.6	Moser	46.24	7.62
	Stannern	May 1808	3.19	Vauquelin	50.	9.
	Ditto	.	.	Klaproth	43.	1.25
	Lissa	Sept. 1808	3.56	Higgins	48.25	.
	Tipperary	Aug. 1810	3.76	Ditto	46.	.
	Ditto	.	.	Howard	.	.
	South America	.	.	Proust	.	.
	Ditto	.	.	Klaproth	.	.
	Ditto	.	6.48	Howard	.	.
	Siberia	.	.	Klaproth	.	.
	Bohemia	.	.	Howard	.	.
	Senegal	.	.	Ditto	.	.
	Agram Croatia	.	.	Klaproth	.	.
	Bahia	.	.	Wollaston	.	.
Peridot ¶	.	.	3.26	Howard	54.	.
Ditto	.	.	.	Klaproth	41.	.

† The magnetic iron contained in this specimen had been previously separated; it amounted to 22 per cent., and contained 3 per cent. of nickel.

‡ 16 grains was the quantity here operated on. I have reduced it to decimal proportions, to assimilate it

with the other analyses. allows that the nickel obtained. The amount of material. The very low specific gravity is able.

§ The very low specific gravity is able.

MINERALS.

Lime	Mag.	Iron	Nickel	Mang.	Sulph.	Increase	Loss	Other ingred.	Authority
2.	14.	20.	.	.	2.	.	3.	.	.
1.4	12.	30.	2.4	.	3.5	5.3	.	.	.
.	17.1	42.3	2.7	.	.	7.1	.	.	P. Trans.
.	21.5	16.5	1.5	.	*	.	4.5	19. mag.iron	An. ch. 51
.	20.	17.	.	.	.	3.	.	.	Aikin
.	22.67	34.67	2.	.	.	6.	.	.	P. Trans.
.	22.5	27.25	.6	2.5	.	.	5.4	.	An. ch. 51
.	24.67	32.	1.33	.	.	8.	.	.	P. Trans.
2.	15.	38.	2.	.	.	3.	.	.	Aikin
.	.	65.75	6.25	.	12.5	.	3.	12.5 earth	Ditto
.	.	65.	26.	.	.	.	.	8. ditto	Ditto
.	15.	34.	2.5	.	.	1.5	.	.	Ditto
.	18.	34.	2.5	.	.	2.5	.	.	Ditto
.	13.	38.	3.	.	*	2.	.	.	Journal 13
.	32.5	25.4	13.1	.	1.	.	.	18. mag.iron	Ditto
.	10.	45.	2.	.	5.	8.	.	.	An. ch. 47
.	14.5	38.3	.33	.25	9.	.	3.6	.	Ditto 69
.	9.	40.	15.	2.	4.	10.5	.	.	Ditto 59
.	14.	38.	2.	2.	.	.	.	2. chrome ||	Aikin
.75	14.25	25.	.4	.	*	.	*	17.6 m. iron	No. 217
3.	16.	30.	.	1.34	2.33	.	3.	* chrome	Phil. Mag.
2.12	2.5	27.	.	.75	*	.	3.76	.	Leon. 12
2.	.	29.	*	1.	*	1.	.	.	An. ch. 70
.5	22.	29.	.5	.25	3.5	.	.	.	No. 217
.	9.	39.	1.75	.	4.	2.	.	.	Phil. Mag.
.	12.25	42.	1.5	.	4.	5.75	.	.	.
.	.	88.9	11.1	.	.	.	.	.	Aikin
.	.	88.	12.	.	.	.	.	.	Ditto
.	.	96.75	3.25	.	.	.	.	.	No. 120
.	.	87.5	12.5	.	.	.	.	.	Aikin
.	.	98.5	1.5	.	.	.	.	.	Ditto
.	.	82.4	17.6	.	.	.	.	.	Ditto
.	.	95.2	4.8	.	.	.	.	.	Ditto
.	.	96.5	3.5	.	.	.	.	.	No. 120
.	.	96.1	3.9	.	.	.	.	.	Letter
.	27.	17.	1.	.	.	.	.	.	P. Trans.
.	38.5	18.5	.	.	.	.	.	.	An. ch. 51

Mr Howard, however, || With 2.5 carbonaceous matter, and 9.5 sulphur, estimated could only be esti- water, and loss.
 mable iron was 25 grains. ¶ Contained in the Siberian iron.
 of this stone is remark-

